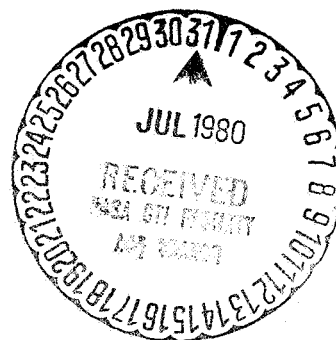


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THE NIMBUS 5 DATA CATALOG

VOLUME 11

1 AUGUST 1974 THROUGH 30 SEPTEMBER 1974
DATA ORBITS 8024 THROUGH 8842



GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

THE NIMBUS 5 DATA CATALOG

Volume 11

**1 August 1974 through 30 September 1974
Data Orbits 8024 through 8842**

Prepared by

**Management and Technical Services Company
Beltsville, Maryland**

for the

LANDSAT/Nimbus Project

April 1975

**GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland**

FOREWORD

This is the eleventh volume of a series of catalogs published by the National Aeronautics and Space Administration to document data acquired from the Nimbus 5 meteorological satellite. This volume covers the period from 1 August 1974 through 30 September 1974. Subsequent catalogs will contain documentation for succeeding periods throughout the useful lifetime of Nimbus 5.

Background information concerning the Nimbus 5 meteorological satellite system and a description of the experiments and data formats have been published separately in The Nimbus 5 User's Guide. Post-launch User's Guide information changes and corrections are included in the data catalogs. The Nimbus 5 catalogs present the type of data available, anomalies in the data, if any, and geographic location and time of the data.

The assembly and editing of this catalog was accomplished by the Management and Technical Services Company (MATSCO), Beltsville, Maryland, under contract number NAS 5-20694 with the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

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SECTION 1

SUMMARY OF OPERATIONS

1.1 Introduction

Nimbus 5 was successfully launched from the Western Test Range, Vandenberg Air Force Base, California at 07 hr. 56 min. 00 sec. on December 11, 1972. After achieving a near circular orbit (1089 km \times 1102 km), all experiments and subsystems were successfully turned on. Data reception, accountability, and processing were intermittent prior to orbit 103 (December 18, 1972) because of engineering evaluation of all spacecraft systems. Table 1-1 is a summary of the documentation for each Nimbus 5 Data Catalog volume 1 through volume 11.

Table 1-1

Nimbus 5 Catalog Documentation Summary

Volume	Dates	Orbits
1	19 Dec. 72 - 31 Jan. 73	104 - 693
2	1 Feb. 73 - 31 Mar. 73	694 - 1485
3	1 Apr. 73 - 31 May 73	1486 - 2304
4	1 June 73 - 31 July 73	2305 - 3123
5	1 Aug. 73 - 30 Sept. 73	3124 - 3942
6	1 Oct. 73 - 30 Nov. 73	3943 - 4761
7	1 Dec. 73 - 31 Jan. 74	4762 - 5593
8	1 Feb. 74 - 31 Mar. 74	5594 - 6385
9	1 Apr. 74 - 31 May 74	6386 - 7204
10	1 June 74 - 31 July 74	7205 - 8023
11	1 Aug. 74 - 30 Sept. 74	8024 - 8842

The total operating time for each experiment from launch through orbit 8842 was:

ESMR	13,339 hours	
ITPR	13,343 hours	
NEMS	13,345 hours	
SCR	13,343 hours	
THIR	13,345 hours	
SCMR: direct	29 hours	(No usable SCMR data was
recorded	6 hours	recorded after orbit 320)

During this catalog period, the spacecraft attitude was biased in pitch between +2.6 and +2.9 degrees. A positive pitch bias of 2.6 degrees moves the principal point 50.0 km behind the satellite subpoint, whereas a 2.9 degree pitch bias moves the principal point 55.6 km. Table 1-2 shows when each was used. Information about pitch bias from a previous period may be found in the catalog for that period.

Table 1-2

Nimbus 5 Pitch Bias History from
Orbit 8024 (1 August 74) through Orbit 8842 (30 September 74)

Date	Orbit	+2.6°	+2.9°
1 Aug.	8024	X	
2 Aug.	8040		X
5 Aug.	8078	X	
6 Aug.	8093		X
9 Aug.	8142	X	
11 Aug.	8160		X
14 Aug.	8211	X	
16 Aug.	8227		X
19 Aug.	8277	X	
21 Aug.	8293		X
24 Aug.	8345	X	
26 Aug.	8361		X
1 Sept.	8452	X	
2 Sept.	8465		X
30 Sept.	8842		X

The nadir location coordinates on ESMR, ITPR, SCR, and NEMS tapes, and the grid points on THIR and ESMR images are routinely adjusted for pitch bias. Any image grid still in error by more than 60 n. m. is identified in Table 2-2 under the column headed "Grid Correction." THIR and ESMR grid print maps, available through NSSDC, are also adjusted to match data points and their coordinates.

Roll and yaw attitude control have been within nominal limits during this period.

Data quality from both HDRSS recorders continues to be good. However, since June 1973 the amplitude of the flutter on HDRSS A has been twice that of HDRSS B. Thus, HDRSS A use is generally restricted to one orbit per day during the blind period when two tape recorders are required for global coverage.

The power, command/clock, Versatile Information Processor (VIP), and thermal subsystem performances continued to be satisfactory during this period.

Subsections 1.2 through 1.7 of this catalog summarize the operational highlights of the individual experiments and call attention to known data anomalies. Section 2 lists the times data was recorded and is available for study for each experiment. Sections 3 and 4 show ESMR and THIR imagery, while Section 5 presents corrections to The Nimbus 5 User's Guide.

The user is referred to The Nimbus 5 User's Guide for a complete description of each experiment and to Section 1.7 of that Guide for the requesting procedure and sources for all data. Sections 2, 3, and 4 of this Data Catalog should help the user to select data to meet his needs.

1.2 The Temperature Humidity Infrared Radiometer (THIR) Subsystem

The quality of THIR data from both channels has been good. Root mean square (rms) THIR temperature variations, due to HDRSS tape recorder and system noise, are near 2.4°K for HDRSS B and 3.6°K for HDRSS A. The higher HDRSS A value is attributed to higher flutter in its recorder system.

Figure 1-1 is an example of ESMR and 11.5 μ m THIR data recorded on HDRSS B as the satellite passed over hurricane Fifi on 18 September 1974. The THIR shows the extent of the hurricane cloud canopy. The ESMR shows the area of rainfall within the storm.

1.3 The Surface Composition Mapping Radiometer (SCMR) Experiment

The SCMR experiment collected and returned approximately 35 hours of instrument data during the first 320 orbits. Intermittent loss of a scan mirror synchronization pulse caused a loss of useful data output whenever this occurred. This synchronization problem progressed to the point where no useful data could be obtained after orbit 320 (4 January 1973).

Users who desire SCMR data or information should write to Dr. Warren G. Hovis, Code 940, Goddard Space Flight Center, Greenbelt, Maryland 20771.

1.4 The Electrically Scanning Microwave Radiometer (ESMR) Experiment

The ESMR instrument performance during this period has been satisfactory, although there were times, as shown in Table 3-2 in Section 3, when the instrument operated in a reduced data output mode.



Figure 1-1. Nimbus 5 THIR ($11.5 \mu\text{m}$ channel) and ESMR Images of Hurricane Fifi Recorded over Central America on 18 September 1974

In the reduced data output level mode the instrument brightness temperature response range is between 110°K and 220°K . Its normal response range is between 110°K and about 300°K . Thus, the effect of the malfunction is to narrow the range to which the instrument can respond. There is no way to recover temperature data above 220°K . However, by applying offset corrections, temperature values below 220°K are considered to be accurate to within 10°K . Because many polar and atmospheric phenomena have brightness temperature lower than 220°K , investigations of these phenomena will be only slightly affected by the loss of high brightness temperatures.

On the ESMR image displays (Section 3) the effect of the temperature offset is to completely eliminate data information in swath 3, since its entire display temperature range, 254°K to 290°K , is above the new upper limit. Swath 2 temperature values range

from 194°K to 266°K; thus, those values above 220°K are not shown at their true temperature. The offset does not affect values of swath 1, as its temperature limits are 110°K and 200°K.

A semi-quantitative calibration algorithm has been developed for these offset data. These calibrated data, as well as the normal data, are available through NSSDC as described in The Nimbus 5 User's Guide.

Computer-processed color images of ESMR (8" × 10" size) have been produced. Each image is a composite of several consecutive orbits of data. Volume 2 shows two examples (in black and white) of these false color composites. The user is cautioned that several of the South Polar images have longitudes that are rotated 180 degrees. Obvious terrestrial features can be used to obtain the correct grid orientation. Table 1-3 is a revised list of the false color composites currently available through NSSDC.

Table 1-3

ESMR Color Images Available at NSSDC

Projection: Polar Area: 60°N - 90°N	Projection: Polar Area: 60°S - 90°S	Projection: Mercator	
Date	Date	Area	Date
15 December 1972	15 December 1972	180°W - 180°E	12 Jan. 1973
24 December	24 December	60°S - 60°N	
11 January 1973	11 January 1973	130°E - 110°W	13 Jan.
21 January	21 January	50°S - 50°N	
30 January	30 January	20°E - 40°E	13 Jan.
10 February	10 February	10°N - 40°N	
26 February	26 February	130°E - 110°W	14 Jan.
21 June	4 March	50°S - 50°N	
1 July	15 March	60°E - 150°E	14 Jan.
21 July	26 March	0° - 60°N	
30 July	4 June	20°W - 60°E	18 Jan.
	21 June	0° - 75°N	
	1 July	60°W - 130°W	23 Jan.
	11 July	10°N - 60°N	
	14 July	60°E - 150°E	10 Feb.
	21 July	0° - 60°N	
	30 July		

1.5 The Infrared Temperature Profile Radiometer (ITPR) Experiment

The ITPR instrument operated in the nadir mode except for once a week space view and housing view calibration data. Also, due to small shifts in gain levels, the instrument required repoling about once a week. Sensor outputs from all seven channels have been normal.

1.6 The Selective Chopper Radiometer (SCR) Experiment

The SCR instrument has remained in the normal operating mode since shortly after launch. Useful data continues to be received from all A, B, and C channels. The D channels, when in high gain, have been affected by noise since orbit 3124 (1 August 1973). Since 21 September 1973 the data has been unusable. The problem is attributed to faulty relay contacts.

The SCR data is transmitted daily from Goddard Space Flight Center to the experimenter at Oxford, England. After processing and calibration, the data is output in several forms for analysis. Previous volumes of this catalog series show several output forms and provide discussion of some of the results from analysis of the SCR data.

1.7 The Nimbus E Microwave Spectrometer (NEMS) Experiment

The NEMS instrument continued to perform well during this catalog period. The experimenter at MIT, Cambridge, Massachusetts, continues to receive all NEMS data and is using it for research. Examples and analysis of some of the output products are in volumes 1 through 3 of this catalog series.

SECTION 2

THE ORBITAL ELEMENTS AND DATA AVAILABILITY ON-OFF TIMES

The Nimbus 5 Brouwer Mean orbital elements for selected epochs during August and September 1974 are listed in Table 2-1.

Table 2-1

Nimbus 5 Brouwer Mean Orbital Elements
for August and September 1974

Epoch	Universal Time	8 AUG 74 00 00 00	22 AUG 74 00 00 00	8 SEPT 74 00 00 00	22 SEPT 74 00 00 00
Semi-Major Axis	Km	7473.477	7473.474	7473.471	7473.468
Eccentricity		0.000825	0.000866	0.000908	0.000919
Inclination	Degrees	99.920	99.917	99.917	99.916
Argument of Perigee	Degrees	203.192	169.063	130.500	97.965
Right Ascension of Ascending Node	Degrees	128.180	141.949	158.663	172.428
Height of Perigee	Km	1089.14	1088.83	1088.52	1088.43
Height of Apogee	Km	1101.48	1101.78	1102.09	1102.18
Anomalistic Period	Minutes	107.16219	107.16211	107.16205	107.16198
Motion of Perigee	Deg. per Day	-2.4361	-2.4363	-2.4364	-2.4365

The data availability on-off times (Table 2-2) list the times when the data from each instrument was recorded on a HDRSS.

THIR orbital coverage in Table 2-2 is divided between daytime and nighttime data. The THIR data is normally recorded simultaneously from both 6.7 μm and 11.5 μm channels. Therefore, the listed on-off times apply to both channels.

A THIR data orbit is defined as beginning and ending at the night-day terminator. Thus, the daytime data orbit extends from the night-day terminator to the day-night terminator. Each daytime THIR data orbit is assigned the orbit number of the ascending node which occurs during that portion of the orbit. The same orbit number is assigned also to the succeeding nighttime data orbit.

The "INT ORBIT & STDN" identify the orbit in which the satellite is interrogated and the ground station to which the satellite data is transmitted. The letter "R" denotes Rosman, North Carolina; the letter "A" denotes Fairbanks, Alaska.

The "HDRSS" identifies the satellite tape recorder, either A or B.

The "THIR GRID CORR" columns are used to indicate an image grid error in latitude and longitude whenever either is in error by more than one degree of great circle arc (60 n. m.). Latitude errors are suffixed by an N or S; longitude errors, by an E or W. An N or S indicates the grid should be moved up or down by the amount shown to obtain a good fit of the grid to the geography. An E or W indicates the grid should be moved right or left, at the equator, by the amount shown.

Ascending node times and longitudes are the times and longitudes at which the satellite crosses the equator in the northbound direction. These crossings always occur during the daytime portion of the orbit. The descending nodes and times refer to the southbound crossings, which occur during the nighttime portion of the orbit.

ESMR, NEMS, SCR, and ITPR are normally on all the time. Their sensory information is recorded on a HDRSS between interrogations, and their on-and-off times define the total record times between interrogations. An interrogation orbit is the orbit during which previously recorded data is transmitted to a ground station. This data will be from segments of two or more data orbits as defined above for THIR. To determine the orbital coverage of the data from any interrogation, the on-and-off times should be matched with the appropriate ascending or descending node listed with the THIR information on the same page of Table 2-2. Coverage can then be determined as described below.

The "DATA ORBIT" indicator in the ESMR table is given only for reference purposes. It is the number which appears on the data display image, samples of which are reproduced in Section 3, and identifies the last data orbit on each display. It should not be confused with the THIR data orbit number.

Table 2-2 together with the World Map (Figure 2-1) and the vellum Subsatellite Tracks Overlay attached to the back of this catalog, can be used to determine approximate geographic coverages.

A Subsatellite Tracks Overlay is correctly oriented with the World Map when the ascending or descending node line on the overlay coincides with the 0-degree latitude (equator) line of the World Map. Orbital coverage is determined by placing an orbit track on the world map at the appropriate ascending node (for daytime) or descending node (for nighttime) longitude for the orbit of interest.

The Subsatellite Tracks Overlay contains 14 correctly spaced tracks, which end at the approximate earth day-night transitions. The tracks contain time ticks spaced 5

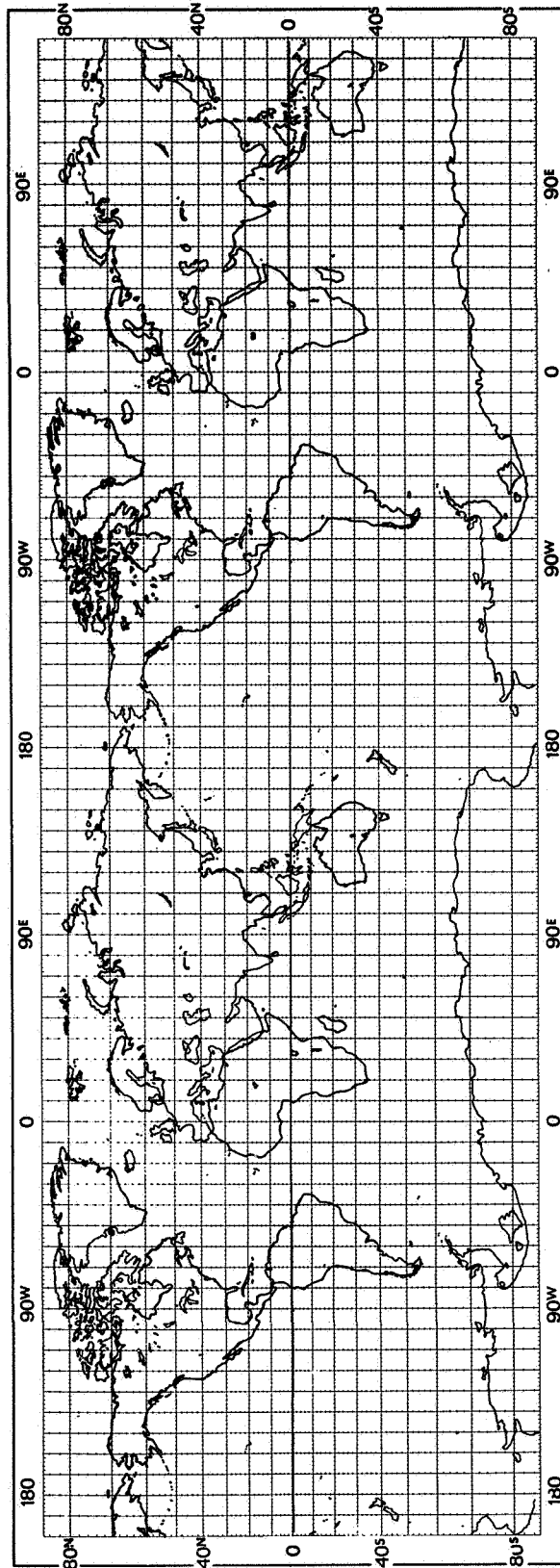


Figure 2-1 World Map

minutes apart, appropriately annotated at the edge of the overlay, referenced from the equator. Times in minutes from equator crossings for all or part of a particular orbit are calculated by adding to or subtracting from the ascending or descending node time listed for that orbit in the Data Availability On-Off Times Table.

The nature and format of the data to be available from each experiment are explained in detail in the respective sections of The Nimbus 5 User's Guide. The appropriate sources for requesting the various data types are listed in Section 1.7 of the same manual.

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
1 AUGUST 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	TIME	NODE		ORBIT	ON	OFF	ORBIT	D					
	HRMN	HRMN	+ STDN	R	CORR		HRMNSS	LONG			HRMN	HRMN	+ STDN	R					
				S	LALO			DEG						S					
DAYTIME THIR										ASC. NODE									
8024	0106	0155	8026R	A			012633	E150.5		8024	2357	0156	8026R	A					
8025	0254	0343	8026R	B			031350	E123.6		8025	0157	0354	8026R	B					
8026							050106	E096.8		8027	0544	0721	8028A	B					
8027	0628	0717	8028A	B			064823	E070.0		8028	0722	0909	8029A	A					
8028	0816	0905	8029A	A			083539	E043.2		8029	0914	1050	8029A	B					
8029	1003	1048	8029A	B			102256	E016.4		8030	1055	1239	8030A	B					
8030	1150	1235	8030A	B			121012	W010.5		8031	1243	1423	8031A	B					
8031	1337	1422	8031A	B			135728	W037.3		8032	1428	1608	8032A	B					
8032	1525	1605	8032A	B			154445	W064.1		8033	1613	1753	8034A	B					
8033	1712	1752	8034A	B			173201	W090.9		8034	1754	1937	8034A	A					
8033	1754	1801	8034A	A						8035	1939	2126	8036A	B					
8034	1859	1936	8034A	A			191918	W117.7		8036	2125	2312	8036A	A					
8034	1939	1948	8036A	B															
8035	2046	2124	8036A	B			210634	W144.6											
8035	2126	2135	8036A	A															
8036	2234	2311	8036A	A			225351	W171.4											
NIGHTTIME THIR										DESC. NODE									
8024	0156	0254	8026R	B			022010	W043.0		NEMS - SCR - ITPR									
8025	0343	0352	8026R	B			040726	W069.8		2357	0156		8026R	A					
8026	0544	0628	8028A	B			055443	W096.6		0156	0353		8026R	B					
8027	0722	0816	8029A	A			074159	W123.4		0544	0722		8028A	B					
8028	0914	1003	8029A	B			092916	W150.2		0722	0909		8029A	A					
8029	1054	1150	8030A	B			111632	W177.0		0914	1050		8029A	B					
8030	1244	1337	8031A	B			130348	E156.2		1043	1239		8030A	B					
8031	1429	1525	8032A	B			145105	E129.3		1244	1424		8031A	B					
8032	1614	1712	8034A	B			163821	E102.5		1429	1607		8032A	B					
8033	1801	1859	8034A	A			182538	E075.7		1612	1754		8034A	B					
8034	1948	2046	8036A	B			201254	E048.9		1754	1938		8034A	A					
8035	2135	2234	8036A	A			220011	E022.1		1939	2126		8036A	B					
8036							234727	W004.8		2126	2312		8036A	A					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
2 AUGUST 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LUNG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
8037	0041	0110	8039R	A		004107	E161.8			8038	0041	0239	8039R	A					
8038	0208	0238	8039R	A		022824	E135.0			8039	0240	0439	8039R	B					
8038	0239	0257	8039R	B						8040	0501	0640	8040R	B					
8039	0355	0437	8039R	B		041540	E108.2			8041	0647	0821	8041A	B					
8040	0543	0632	8040R	B		060256	E081.4			8042	0826	1005	8042A	B					
8041	0730	0819	8041A	B		075013	E054.5			8043	1010	1150	8043A	B					
8042	0917	1004	8042A	B		093729	E027.7			8044	1157	1339	8044A	B					
8043	1105	1149	8043A	B		112446	E000.9			8045	1345	1524	8045A	B					
8044	1252	1338	8044A	B		131202	W025.9			8046	1531	1710	8047A	B					
8045	1439	1523	8045A	B		145919	W052.7			8047	1710	1853	8047A	A					
8046	1626	1708	8047A	B		164635	W079.6			8048	1855	2037	8048A	B					
8046	1710	1715	8047A	A						8049	2043	2225	8049A	B					
8047	1814	1852	8047A	A		183352	W106.4												
8047	1854	1903	8048A	B															
8048	2001	2035	8048A	B		202108	W133.2												
8048	2042	2050	8049A	B															
8049	2148	2223	8049A	B		220824	W160.0												
8050	2357	0024	8052R	A		235541	E173.2												
NIGHTTIME THIR										DESC. NODE									
8037	0110	0208	8039R	A		013443	W031.6												
8038	0257	0355	8039R	B		032200	W058.4												
8039	0501	0543	8040R	B		050916	W085.2												
8040	0632	0638	8040R	B		065633	W112.0												
8040	0646	0730	8041A	B															
8041	0825	0917	8042A	B		084349	W138.9												
8042	1010	1105	8043A	B		103106	W165.7												
8043	1156	1252	8044A	B		121822	E167.5												
8044	1344	1439	8045A	B		140538	E140.7												
8045	1531	1626	8047A	B		155255	E113.9												
8046	1715	1814	8047A	A		174011	E087.0												
8047	1903	2001	8048A	B		192728	E060.2												
8048	2050	2148	8049A	B		211444	E033.4												
8049						230201	E006.6												
8050	0024	0123	8052R	A		004917	W020.2												

NEMS - SCR - ITPR

0040	0239	8039R	A						
0239	0438	8039R	B						
0501	0639	8040R	B						
0646	0821	8041A	B						
0826	1005	8042A	B						
1010	1151	8043A	B						
1156	1340	8044A	B						
1344	1525	8045A	B						
1531	1710	8047A	B						
1710	1853	8047A	A						
1854	2037	8048A	B						
2042	2226	8049A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
3 AUGUST 1974

THIR										ESMR									
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		11.5 + 6.7		INT	H	THIR	ASC. AND					INT		H					
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEC			ORBIT	HRMN	HRMN	STDN	R					
				S	LALD									S					
DAYTIME THIR										ASC. NODE									
8051	0123	0154	8052R	A		014257	E146.3			8051	2359	0155	8052R	A					
8051	0155	0212	8052R	B						8052	0156	0355	8052R	B					
8052	0310	0353	8052R	B		033014	E119.5			8053	0416	0555	8053R	B					
8053	0457	0546	8053R	B		051730	E092.7			8054	0603	0735	8054A	B					
8054	0645	0733	8054A	B		070447	E065.9			8055	0742	0921	8055A	B					
8055	0832	0920	8055A	B		085203	E039.1			8056	0927	1110	8056A	B					
8056	1019	1108	8056A	B		103919	E012.3			8057	1115	1255	8057A	B					
8057	1206	1254	8057A	B		122636	W014.6			8058	1300	1440	8058A	B					
8058	1354	1438	8058A	B		141352	W041.4			8059	1445	1624	8059A	B					
8059	1541	1622	8059A	B		160109	W068.2			8060	1630	1810	8060A	B					
8060	1728	1808	8060A	B		174825	W095.0			8061	1815	1955	8061A	B					
8061	1915	1953	8061A	B		193542	W121.9			8062	2000	2138	8062A	B					
8062	2103	2136	8062A	B		212258	W148.7			8063	2143	2327	8063A	B					
8062	2143	2152	8063A	B															
8063	2250	2325	8063A	B		231015	W175.5												
NIGHTTIME THIR										DESC. NODE									
8051	0212	0310	8052R	B		023634	W047.0			NEMS - SCR - ITPR									
8052	0416	0457	8053R	B		042350	W073.9			-----									
8053	0546	0554	8053R	B		061106	W100.7			2359	0155	8052R	A						
8053	0603	0645	8054A	B						0155	0354	8052R	B						
8054	0741	0832	8055A	B		075823	W127.5			0415	0555	8053R	B						
8055	0929	1019	8056A	B		094539	W154.3			0603	0736	8054A	B						
8056	1115	1206	8057A	B		113256	E178.9			0741	0922	8055A	B						
8057	1300	1354	8058A	B		132012	E152.0			0927	1110	8056A	B						
8058	1445	1541	8059A	B		150729	E125.2			1115	1255	8057A	B						
8059	1630	1728	8060A	B		165445	E098.4			1300	1440	8058A	B						
8060	1817	1915	8061A	B		184201	E071.6			1445	1624	8059A	B						
8061	2004	2103	8062A	B		202918	E044.8			1629	1810	8060A	B						
8062	2152	2250	8063A	B		221634	E017.9			1815	1955	8061A	B						
8063						000351	W008.9			2000	2138	8062A	B						
										2143	2327	8063A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
4 AUGUST 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
8064	0056	0126	8066R	A		005731	E157.7			8065	0057	0256	8066R	A					
8065	0224	0255	8066R	A		024447	E130.9			8066	0257	0455	8066R	B					
8065	0256	0313	8066R	B						8067	0516	0654	8067R	B					
8066	0412	0453	8066R	B		043204	E104.1			8068	0704	0836	8068A	B					
8067	0559	0648	8067R	B		061920	E077.3			8069	0842	1023	8069A	B					
8068	0746	0834	8068A	B		080637	E050.4			8070	1028	1208	8070A	B					
8069	0933	1021	8069A	B		095353	E023.6			8071	1213	1356	8071A	B					
8070	1121	1206	8070A	B		114110	W003.2			8072	1401	1540	8072A	B					
8071	1308	1355	8071A	B		132826	W030.0			8073	1545	1722	8073A	B					
8072	1455	1538	8072A	B		151543	W056.9			8074	1727	1905	8074A	B					
8073	1643	1721	8073A	B		170259	W083.7			8075	1911	2056	8075A	B					
8073	1727	1732	8074A	B						8076	2102	2242	8076A	B					
8074	1830	1904	8074A	B		185015	W110.5												
8074	1911	1919	8075A	B															
8075	2017	2055	8075A	B		203732	W137.3												
8076	2204	2240	8076A	B		222448	W164.1												
NIGHTTIME THIR										DESC. NODE									
										NEMS - SCR - ITPR									
-----										-----									
8064	0126	0224	8066R	A		015107	W035.7			0057	0256	8066R	A						
8065	0313	0412	8066R	B		033824	W062.5			0256	0454	8066R	B						
8066	0516	0559	8067R	B		052540	W089.3			0515	0654	8067R	B						
8067	0648	0653	8067R	B		071256	W116.2			0703	0836	8068A	B						
8067	0703	0746	8068A	B						0841	1023	8069A	B						
8068	0841	0933	8069A	B		090013	W143.0			1028	1207	8070A	B						
8069	1028	1121	8070A	B		104729	W169.8			1212	1356	8071A	B						
8070	1212	1308	8071A	B		123446	E163.4			1401	1540	8072A	B						
8071	1401	1455	8072A	B		142202	E136.6			1544	1722	8073A	B						
8072	1544	1643	8073A	B		160919	E109.8			1727	1906	8074A	B						
8073	1732	1830	8074A	B		175635	E082.9			1911	2056	8075A	B						
8074	1919	2017	8075A	B		194351	E056.1			2102	2242	8076A	B						
8075	2106	2204	8076A	B		213108	E029.3												
8076						231824	E082.5												

NEMS - SCR - ITPR									

0057	0256	8066R	A						
0256	0454	8066R	B						
0515	0654	8067R	B						
0703	0836	8068A	B						
0841	1023	8069A	B						
1028	1207	8070A	B						
1212	1356	8071A	B						
1401	1540	8072A	B						
1544	1722	8073A	B						
1727	1906	8074A	B						
1911	2056	8075A	B						
2102	2242	8076A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
5 AUGUST 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		ON OFF		INT	H				
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC.	NODE		ORBIT	HRMN	HRMN	STDN	ORBIT	D				
				+	R	CORR	TIME	LONG						+	R				
					S	LALO	HRMNSS	DEG							S				
DAYTIME THIR										ASC. NODE									
8077	0012	0041	8079R	A			001205	E169.1		8078	0013	0211	8079R	A					
8078	0139	0210	8079R	A			015921	E142.3		8079	0212	0410	8079R	B					
8078	0211	0228	8079R	B						8080	0432	0610	8080R	B					
8079	0326	0409	8079R	B			034638	E115.4		8081	0619	0752	8081A	B					
8080	0513	0602	8080R	B			053354	E088.6		8082	0758	0939	8082A	B					
8081	0701	0750	8081A	B			072110	E061.8		8083	0944	1128	8083A	B					
8082	0848	0937	8082A	B			090827	E035.0		8084	1134	1313	8084A	B					
8083	1035	1124	8083A	B			105543	E008.2		8085	1319	1457	8085A	B					
8084	1223	1311	8084A	B			124300	W018.7		8086	1503	1641	8086A	B					
8085	1410	1456	8085A	B			143016	W045.5		8087	1647	1821	8087A	B					
8086	1557	1640	8086A	B			161733	W072.3		8088	1828	2006	8088A	B					
8087	1744	1821	8087A	B			180449	W099.1		8089	2012	2154	8089A	B					
8087	1827	1833	8088A	B						8090	2200	2343	8090A	B					
8088	1932	2005	8088A	B			195206	W125.9											
8088	2012	2021	8089A	B															
8089	2119	2153	8089A	B			213922	W152.7											
8089	2200	2208	8090A	B															
8090	2306	2341	8090A	B			232638	W179.6											
8090	2344	2355	8093R	A															
NIGHTTIME THIR										DESC. NODE									
8077	0041	0139	8079R	A			010541	W024.3		NEMS - SCR - ITPR									
8078	0228	0336	8079R	B			025257	W051.2		0012	0211	8079R	A						
8079	0432	0513	8080R	B			044014	W078.0		0211	0410	8079R	B						
8080	0602	0609	8080R	B			062730	W104.8		0432	0611	8080R	B						
8080	0619	0701	8081A	B						0619	0753	8081A	B						
8081	0758	0848	8082A	B			081446	W131.6		0758	0939	8082A	B						
8082	0943	1035	8083A	B			100203	W158.4		0943	1128	8083A	B						
8083	1134	1223	8084A	B			114919	E174.8		1134	1314	8084A	B						
8084	1319	1410	8085A	B			133636	E147.9		1319	1458	8085A	B						
8085	1503	1557	8086A	B			152352	E121.1		1503	1642	8086A	B						
8086	1646	1744	8087A	B			171109	E094.3		1646	1822	8087A	B						
8087	1833	1932	8088A	B			185825	E067.5		1827	2007	8088A	B						
8088	2021	2119	8089A	B			204542	E040.7		2011	2155	8089A	B						
8089	2208	2306	8090A	B			223258	E013.8		2200	2343	8090A	B						
8090	2355	0053	8093R	A			002014	W013.0											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
6 AUGUST 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT		D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT		D				
ORBIT	HRMN	HRMN	STDN	R	CORR	LALJ	TIME	LONG		ORBIT	HRMN	HRMN	STDN	R	S				
				S			HRMNSS	DEG						S					
DAYTIME THIR										ASC. NODE									
8091	0053	0141	8093R	A			011351	E153.6		8091	2344	0142	8093R	A					
8092	0241	0330	8092R	B			030108	E126.8		8092	0142	0341	8092R	B					
8093	0428	0517	8093R	B			044824	E100.0		8093	0350	0525	8093R	B					
8094	0615	0704	8094R	B			063540	E073.2		8094	0531	0712	8094R	B					
8095	0802	0851	8095A	B			082257	E046.3		8095	0719	0855	8095A	B					
8096	0950	1039	8096A	B			101013	E019.5		8096	0901	1040	8096A	B					
8097	1137	1225	8097A	B			115730	W007.3		8097	1045	1226	8097A	B					
8098	1324	1411	8098A	B			134446	W034.1		8098	1253	1412	8098A	B					
8099	1512	1556	8099A	B			153202	W060.9		8099	1418	1557	8099A	B					
8100	1659	1726	8100R	B			171919	W087.8		8100	1602	1728	8100R	B					
8100	1734	1748	8102A	B						8101	1735	1917	8102A	B					
8101	1846	1916	8102A	B			190635	W114.6		8102	1917	2112	8102A	A					
8101	1916	1935	8102A	A						8103	2113	2255	8103A	B					
8102	2033	2109	8102A	A			205352	W141.4											
8102	2113	2122	8103A	B															
8103	2221	2254	8103A	B			224108	W168.2											
NIGHTTIME THIR										DESC. NODE									
8091	0143	0241	8092R	B			020727	W039.8		NEMS - SCR - ITPR									
8092	0330	0340	8092R	B			035443	W066.6		-----									
8092	0349	0428	8093R	B						2344	0142	8093R	A						
8093	0517	0524	8093R	B			054200	W093.4		0142	0341	8092R	B						
8093	0531	0615	8094R	B						0349	0525	8093R	B						
8094	0704	0712	8094R	B			072916	W120.2		0531	0713	8094R	B						
8094	0718	0802	8095A	B						0718	0855	8095A	B						
8095	0900	0950	8096A	B			091633	W147.1		0900	1040	8096A	B						
8096	1045	1137	8097A	B			110349	W173.9		1045	1227	8097A	B						
8097	1232	1324	8098A	B			125105	E159.3		1231	1412	8098A	B						
8098	1418	1512	8099A	B			143822	E132.5		1418	1558	8099A	B						
8099	1603	1659	8100R	B			162538	E105.7		1603	1728	8100R	B						
8100	1748	1846	8102A	B			181255	E078.9		1734	1917	8102A	B						
8101	1935	2033	8102A	A			200011	E052.1		1916	2112	8102A	A						
8102	2122	2221	8103A	B			214727	E025.2		2113	2256	8103A	B						
8103							233444	W001.6											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
7 AUGUST 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	DESC. NODE		DESC. NODE		
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	DEG	TIME	DEG	
			STDN	S	LALO	HRMNSS							STDN	S					
DAYTIME THIR										ASC. NODE									
8104	0029	0057	8106R	A		002825	E165.0			8105	0029	0228	8106R	A					
8105	0155	0226	8106R	A		021541	E138.2			8106	0228	0425	8106R	B					
8105	0228	0244	8106R	B						8107	0446	0630	8107R	B					
8106	0342	0425	8106R	B		040257	E111.3			8108	0636	0809	8108A	B					
8107	0530	0619	8107R	B		055014	E084.5			8109	0814	0955	8109A	B					
8108	0717	0806	8108A	B		073730	E057.7			8110	1000	1144	8110A	B					
8109	0904	0953	8109A	B		092447	E030.9			8111	1150	1329	8111A	B					
8110	1051	1140	8110A	B		111203	E004.1			8112	1334	1513	8112A	B					
8111	1239	1327	8111A	B		125920	W022.8			8113	1519	1655	8113A	B					
8112	1426	1512	8112A	B		144636	W049.6			8114	1701	1837	8114A	B					
8113	1613	1654	8113A	B		163352	W076.4			8115	1843	2025	8115A	B					
8114	1801	1836	8114A	B		182109	W103.2			8116	2030	2211	8116A	B					
8114	1843	1849	8115A	B						8117	2217	0000	8117A	B					
8115	1948	2023	8115A	B		200825	W130.0												
8115	2030	2037	8116A	B															
8116	2135	2210	8116A	B		215542	W156.9												
8116	2217	2224	8117A	B															
8117	2322	2358	8117A	B		234258	E176.3												
8117	2359	0011	8120R	A															
NIGHTTIME THIR										DESC. NODE									
8104	0057	0155	8106R	A		012200	W028.4			NEMS - SCR - ITPR									
8105	0244	0342	8106R	B		030917	W055.2			-----									
8106	0446	0530	8107R	B		045633	W082.0			0028	0227	8106R	A						
8107	0619	0629	8107R	B		064350	W108.9			0227	0426	8106R	B						
8107	0636	0717	8108A	B						0446	0631	8107R	B						
8108	0813	0904	8109A	B		083106	W135.7			0636	0809	8108A	B						
8109	1000	1051	8110A	B		101822	W162.5			0813	0956	8109A	B						
8110	1149	1239	8111A	B		120539	E170.7			1000	1144	8110A	B						
8111	1334	1426	8112A	B		135255	E143.9			1149	1328	8111A	B						
8112	1518	1613	8113A	B		154012	E117.0			1334	1514	8112A	B						
8113	1702	1801	8114A	B		172728	E090.2			1519	1656	8113A	B						
8114	1849	1948	8115A	B		191444	E063.4			1701	1838	8114A	B						
8115	2037	2135	8116A	B		210201	E036.6			1843	2025	8115A	B						
8116	2224	2322	8117A	B		224917	E009.8			2030	2212	8116A	B						
8117	0011	0110	8120R	A		003634	W017.0			2217	0000	8117A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
8 AUGUST 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON	OFF	INT	H	DESC. NODE		DATA	ON	OFF
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	DEG	ORBIT	HRMN	HRMN
			STDN	R	CORR	HRMNSS							STDN	R					
				S	LALD									S					
DAYTIME THIR										ASC. NODE									
8118	0110	0156	8120R	A		013015	E149.5			8118	2359	0157	8120R	A					
8119	0257	0346	8119R	B		031731	E122.7			8119	0158	0356	8119R	B					
8120	0444	0533	8120R	B		050447	E095.9			8120	0404	0541	8120R	B					
8121	0631	0720	8122A	B		065204	E069.0			8121	0547	0725	8122A	B					
8122	0819	0908	8122A	A		083920	E042.2			8122	0726	0912	8122A	A					
8123	1006	1053	8123A	B		102637	E015.4			8123	0914	1055	8123A	B					
8124	1153	1242	8124A	B		121353	W011.4			8124	1100	1242	8124A	B					
8125	1340	1428	8125A	B		140109	W038.2			8125	1249	1430	8125A	B					
8126	1528	1611	8126A	B		154826	W065.0			8126	1435	1611	8126A	B					
8127	1715	1756	8127A	B		173542	W091.9			8127	1618	1757	8127A	B					
8128	1902	1940	8128A	B		192259	W118.7			8128	1803	1941	8128A	B					
8129	2050	2126	8129A	B		211015	W145.5			8129	1948	2127	8129A	B					
8130						225732	W172.3												
NIGHTTIME THIR										DESC. NODE									
8118	0159	0257	8119R	B		022350	W043.9												
8119	0346	0355	8119R	B		041107	W070.7												
8119	0403	0444	8120R	B															
8120	0533	0540	8120R	B		055823	W097.5												
8120	0547	0631	8122A	B															
8121	0726	0819	8122A	A		074539	W124.3												
8122	0913	1006	8123A	B		093256	W151.1												
8123	1100	1153	8124A	B		112012	W178.0												
8124	1248	1340	8125A	B		130729	E155.2												
8125	1435	1528	8126A	B		145445	E128.4												
8126	1618	1715	8127A	B		164201	E101.6												
8127	1804	1902	8128A	B		182918	E074.8												
8128	1951	2050	8129A	B		201634	E047.9												
8129						220351	E021.1												
8130						235107	W005.7												
										NEMS - SCR - ITPR									

										2359	0157		8120R	A					
										0157	0356		8119R	B					
										0403	0541		8120R	B					
										0547	0726		8122A	B					
										0726	0912		8122A	A					
										0913	1055		8123A	B					
										1059	1243		8124A	B					
										1248	1430		8125A	B					
										1435	1612		8126A	B					
										1618	1758		8127A	B					
										1803	1942		8128A	B					
										1947	2127		8129A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
9 AUGUST 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8131	0045	0113	8133R	A		004448	E160.9			8132	0045	0243	8133R	A					
8132	0211	0242	8133R	A		023204	E134.1			8133	0244	0442	8133R	B					
8132	0244	0300	8133R	B						8134	0503	0645	8134R	B					
8133	0359	0441	8133R	B		041921	E107.3			8135	0652	0824	8135A	B					
8134	0546	0635	8134R	B		060637	E080.4			8136	0830	1009	8136A	B					
8135	0733	0822	8135A	B		075354	E053.6			8137	1020	1158	8137A	B					
8136	0920	1009	8136A	B		094110	E026.8			8138	1203	1345	8138A	B					
8137	1108	1156	8137A	B		112827	000.0			8139	1351	1528	8139A	B					
8138	1255	1343	8138A	B		131543	W026.9			8140	1533	1714	8140A	B					
8139	1442	1527	8139A	B		150259	W053.7			8141	1720	1900	8141A	B					
8140	1629	1713	8140A	B		165016	W080.5			8142	1905	2040	8142A	B					
8141	1817	1859	8141A	B		183732	W107.3			8143	2045	2227	8143A	B					
8142	2004	2038	8142A	B		202449	W134.1												
8142	2044	2053	8143A	B															
8143	2151	2225	8143A	B		221205	W161.0												
8144	0001	0027	8146R	A		235921	E172.2												
NIGHTTIME THIR										DESC. NODE									
8131	0113	0211	8133R	A		013823	W032.5			NEMS - SCR - ITPR									
8132	0300	0359	8133R	B		032540	W059.3			0044	0243	8133R	A						
8133	0503	0546	8134R	B		051256	W086.2			0243	0442	8133R	B						
8134	0635	0645	8134R	B		070013	W113.0			0503	0647	8134R	B						
8134	0652	0733	8135A	B						0651	0825	8135A	B						
8135	0829	0920	8136A	B		084729	W139.8			0829	1009	8136A	B						
8136	1020	1108	8137A	B		103446	W166.6			1019	1158	8137A	B						
8137	1202	1255	8138A	B		122202	E166.6			1202	1345	8138A	B						
8138	1351	1442	8139A	B		140918	E139.8			1351	1528	8139A	B						
8139	1533	1629	8140A	B		155635	E112.9			1533	1714	8140A	B						
8140	1719	1817	8141A	B		174351	E086.1			1719	1900	8141A	B						
8141	1906	2004	8142A	B		193108	E059.3			1905	2040	8142A	B						
8142	2053	2151	8143A	B		211824	E032.5			2044	2227	8143A	B						
8143						230540	E005.7												
8144	0027	0126	8146R	A		005257	W021.2												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
10 AUGUST 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	DESC. NODE		DESC. NODE		
ORBIT	HRMN	HRMN	ORBIT	R	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	R	TIME	DEG	TIME	DEG	
			STDN	S	LALJ	HRMNSS							STDN	S					
DAYTIME THIR										ASC. NODE									
8145	0126	0158	8146R	A		014638	E145.4			8145	0001	0157	8146R	A					
8145	0159	0215	8146R	B						8146	0159	0358	8146R	B					
8146	0313	0356	8146R	B		033354	E118.6			8147	0420	0559	8147R	B					
8147	0500	0549	8147R	B		052111	E091.8			8148	0604	0743	8149A	B					
8148	0648	0737	8149A	B		070827	E065.0			8149	0745	0929	8149A	A					
8149	0835	0924	8149A	A		085544	E038.2			8150	0930	1112	8150A	B					
8150	1022	1111	8150A	B		104300	E011.3			8151	1117	1255	8151A	B					
8151	1209	1254	8151A	B		123016	W015.5			8152	1301	1443	8152A	B					
8152	1357	1441	8152A	B		141733	W042.3			8153	1448	1625	8153A	B					
8153	1544	1623	8153A	B		160449	W069.2			8154	1631	1809	8154A	B					
8154	1731	1808	8154A	B		175206	W096.0			8155	1815	1954	8155A	B					
8154	1814	1820	8155A	B						8156	2000	2144	8156A	B					
8155	1918	1951	8155A	B		193922	W122.8			8157	2149	2331	8157A	B					
8155	1959	2007	8156A	B															
8156	2106	2142	8156A	B		212638	W149.6												
8156	2149	2155	8157A	B															
8157	2253	2330	8157A	B		231355	W176.4												
8157	2331	2342	8160R	A															
NIGHTTIME THIR										DESC. NODE									
8145	0215	0313	8146R	B		024013	W048.0			NEMS - SCR - ITPR									
8146	0419	0500	8147R	B		042730	W074.8			0001	0157	8146R	A						
8147	0549	0557	8147R	B		061446	W101.6			0159	0359	8146R	B						
8147	0604	0648	8149A	B						0420	0559	8147R	B						
8148	0737	0743	8149A	B		080202	W128.4			0604	0743	8149A	B						
8148	0746	0835	8149A	A						0745	0928	8149A	A						
8149	0929	1022	8150A	B		094919	W155.3			0929	1112	8150A	B						
8150	1117	1209	8151A	B		113635	E177.9			1117	1256	8151A	B						
8151	1301	1357	8152A	B		132352	E151.1			1301	1443	8152A	B						
8152	1447	1544	8153A	B		151108	E124.3			1447	1625	8153A	B						
8153	1633	1731	8154A	B		165825	E097.5			1630	1809	8154A	B						
8154	1820	1918	8155A	B		184541	E070.7			1814	1954	8155A	B						
8155	2007	2106	8156A	B		203257	E043.8			1959	2144	8156A	B						
8156	2155	2253	8157A	B		222014	E017.0			2149	2331	8157A	B						
8157	2342	0040	8160R	A		000730	W009.8												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
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THIR										ESMR									
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DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
				+	R	CORR	TIME LONG						+	R					
				STDN	S	LALJ	HRMNSS DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
8158	0040	0129	8160R	A			010112 E156.8			8158	2331	0130	8160R	A					
8159	0228	0316	8159R	B			024829 E130.0			8159	0130	0329	8159R	B					
8160	0415	0504	8160R	B			043545 E103.1			8160	0336	0512	8160R	B					
8161	0602	0651	8162A	B			062302 E076.3			8161	0518	0719	8162A	B					
8162							081018 E049.5			8163	0847	1027	8163A	B					
8163	0937	1026	8163A	B			095734 E022.7			8164	1032	1215	8164A	B					
8164	1124	1213	8164A	B			114451 W004.1			8165	1222	1400	8165A	B					
8165	1311	1357	8165A	B			133207 W031.0			8166	1405	1546	8166A	B					
8166	1458	1541	8166A	B			151924 W057.8			8167	1550	1726	8167A	B					
8167	1646	1725	8167A	B			170640 W084.6			8168	1732	1910	8168A	B					
8168	1833	1909	8168A	B			185357 W111.4			8169	1915	2059	8169A	B					
8168	1915	1922	8169A	B						8170	2105	2244	8170A	B					
8169	2020	2058	8169A	B			204113 W138.2												
8170	2208	2243	8170A	B			222829 W165.0												
NIGHTTIME THIR										DESC. NODE									
8158	0130	0228	8159R	B			015447 W036.6			NEMS - SCR - ITPR									
8159	0316	0328	8159R	B			034204 W063.5			-----									
8159	0336	0415	8160R	B						2331	0130	8160R	A						
8160	0504	0512	8160R	B			052920 W090.3			0130	0329	8159R	B						
8160	0518	0602	8162A	B						0336	0513	8160R	B						
8161	0651	0718	8162A	B			071637 W117.1			0518	0720	8162A	B						
8162	0847	0937	8163A	B			090353 W143.9			0847	1027	8163A	B						
8163	1032	1124	8164A	B			105109 W107.7			1032	1216	8164A	B						
8164	1221	1311	8165A	B			123826 E162.5			1222	1400	8165A	B						
8165	1405	1458	8166A	B			142542 E135.6			1404	1547	8166A	B						
8166	1549	1646	8167A	B			161259 E108.8			1549	1727	8167A	B						
8167	1735	1833	8168A	B			180015 E082.0			1731	1910	8168A	B						
8168	1922	2020	8169A	B			194732 E055.2			1915	2107	8169A	B						
8169	2109	2208	8170A	B			213448 E028.4			2105	2244	8170A	B						
8170							232204 E001.5												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
12 AUGUST 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
8171	0017	0044	8173R	A		001546	E168.1			8172	0017	0215	8173R	A					
8172	0142	0214	8173R	A		020302	E141.3			8173	0215	0415	8173R	B					
8172	0215	0231	8173R	B						8174	0436	0604	8175A	B					
8173	0329	0413	8173R	B		035019	E114.5			8175	0619	0758	8176A	A					
8174	0517	0602	8175A	B		053735	E087.7			8176	0759	0940	8176A	B					
8175	0704	0753	8176A	A		072451	E060.9			8177	0946	1130	8177A	B					
8176	0851	0939	8176A	B		091208	E034.0			8178	1136	1313	8178A	B					
8177	1038	1127	8177A	B		105924	E007.2			8179	1318	1500	8179A	B					
8178	1226	1312	8178A	B		124641	W019.6			8180	1505	1641	8180A	B					
8179	1413	1458	8179A	B		143357	W046.4			8181	1647	1828	8181A	B					
8180	1600	1640	8180A	B		162114	W073.2			8182	1832	2010	8182A	B					
8181	1747	1826	8181A	B		180830	W100.0			8184	2207	2346	8184A	B					
8182	1935	2008	8182A	B		195546	W126.9												
8183						214303	W153.7												
8184	2309	2344	8184A	B		233019	E179.5												
8184	2346	2358	8187R	A															
NIGHTTIME THIR										DESC. NODE									
8171	0044	0142	8173R	A		010921	W025.3			NEMS - SCR - ITPR									
8172	0231	0329	8173R	B		025637	W052.1			-----									
8173	0435	0517	8175A	B		044354	W078.9			0016	0215	8173R	A						
8174	0606	0704	8176A	A		063110	W105.7			0215	0414	8173R	B						
8175	0758	0851	8176A	B		063110	W105.7			0435	0604	8175A	B						
8176	0946	1038	8177A	B		081826	W132.6			0604	0759	8176A	A						
8177	1136	1226	8178A	B		100543	W159.4			0759	0941	8176A	B						
8178	1318	1413	8179A	B		115259	E173.8			0946	1131	8177A	B						
8179	1505	1600	8180A	B		134016	E147.0			1136	1314	8178A	B						
8180	1649	1747	8181A	B		152732	E120.2			1318	1500	8179A	B						
8181	1836	1935	8182A	B		171448	E093.4			1504	1642	8180A	B						
8182						190205	E066.5			1647	1828	8181A	B						
8183	2211	2309	8184A	B		204921	E039.7			1832	2010	8182A	B						
8184	2358	0057	8187R	A		223638	E012.9			2207	2347	8184A	B						
						002354	W013.9												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
13 AUGUST 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8185	0057	0144	8187R	A		011736	E152.7			8185	2346	0145	8187R	A					
8186	0244	0333	8186R	B		030452	E125.9			8186	0145	0344	8186R	B					
8187	0431	0520	8187R	B		045209	E049.0			8187	0352	0530	8187R	B					
8188	0618	0707	8188A	B		063925	E072.2			8188	0536	0712	8188A	B					
8189	0806	0855	8189A	B		082641	E045.4			8189	0717	0857	8189A	B					
8190	0953	1042	8190A	B		101358	E018.6			8190	0902	1044	8190A	B					
8191	1140	1228	8191A	B		120114	W008.2			8191	1049	1230	8191A	B					
8192	1327	1414	8192A	B		134831	W035.1			8192	1236	1415	8192A	B					
8193	1515	1559	8193A	B		153547	W061.9			8193	1422	1600	8193A	B					
8194	1702	1740	8194A	B		172303	W088.7			8194	1605	1741	8194A	B					
8195	1849	1924	8195A	B		191020	W115.5			8195	1747	1925	8195A	B					
8195	1931	1938	8196A	B						8196	1931	2116	8196A	B					
8196	2036	2115	8196A	B		205736	W142.3			8197	2122	2302	8197A	B					
8197	2224	2259	8197A	B		224453	W169.2												
NIGHTTIME THIR										DESC. NODE									
8185	0145	0244	8186R	B		021111	W040.7			NEMS - SCR - ITPR									
8186	0333	0343	8186R	B		035827	W067.6			-----									
8186	0351	0431	8187R	B						2347	0145	8187R	A						
8187	0520	0528	8187R	B		054543	W094.4			0145	0344	8186R	B						
8187	0536	0618	8188A	B						0351	0530	8187R	B						
8188	0717	0806	8189A	B		073300	W121.2			0536	0710	8188A	B						
8189	0902	0953	8190A	B		092016	W148.0			0716	0857	8189A	B						
8190	1049	1140	8191A	B		110733	W174.8			0902	1044	8190A	B						
8191	1235	1327	8192A	B		125449	E158.4			1049	1231	8191A	B						
8192	1421	1515	8193A	B		144205	E131.6			1235	1416	8192A	B						
8193	1605	1702	8194A	B		162922	E104.7			1421	1600	8193A	B						
8194	1751	1849	8195A	B		181638	E077.9			1605	1742	8194A	B						
8195	1938	2036	8196A	B		200355	E051.1			1747	1925	8195A	B						
8196	2125	2224	8197A	B		215111	E024.3			1931	2116	8196A	B						
8197						233827	W002.6			2122	2302	8197A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
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THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG		DATA	ON	OFF	ORBIT	D	GRID	DESC.			
ORBIT	HRMN	HRMN	STDN	S	LALD	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	LALD	HRMNSS			
DAYTIME THIR										ASC. NODE									
8198	0032	0100	8200R	A		003209	E164.0			8199	0033	0216	8200R	A		003209			
8199	0158	0230	8200R	A		021926	E137.2			8200	0231	0430	8200R	B		021926			
8199	0232	0247	8200R	B						8201	0451	0635	8202A	B					
8200	0346	0429	8200R	B		040642	E110.4			8202	0635	0815	8202A	A					
8201	0533	0622	8202A	B		055358	E083.6			8203	0817	1000	8203A	B					
8202	0720	0809	8202A	A		074115	E056.8			8204	1005	1144	8204A	B					
8203	0907	0956	8203A	B		092831	E029.9			8205	1149	1330	8205A	B					
8204	1055	1142	8204A	B		111548	E003.1			8206	1335	1515	8206A	B					
8205	1242	1328	8205A	B		130304	W023.7			8207	1520	1700	8207A	B					
8206	1429	1514	8206A	B		145020	W050.5			8208	1727	1925	8210A	A					
8207	1616	1658	8207A	B		163737	W077.3			8210	2014	2212	8210A	B					
8208	1804	1853	8210A	A		182453	W104.2												
8209	2013	2040	8210A	B		201210	W131.0												
8210	2138	2211	8210A	B		215926	W157.8												
8211	2347	0014	8213R	A		234643	E175.4												
NIGHTTIME THIR										DESC. NODE									
8198	0100	0158	8200R	A		012544	W029.4			NEMS - SCR - ITPR									
8199	0247	0346	8200R	B		031300	W056.2			-----									
8200	0450	0533	8202A	B		050017	W083.0			0032	0231		8200R	A					
8201	0622	0633	8202A	B		064733	W109.8			0231	0430		8200R	B					
8201	0635	0720	8202A	A						0450	0635		8202A	B					
8202	0816	0907	8203A	B		083450	W136.6			0635	0816		8202A	A					
8203	1005	1055	8204A	B		102206	W163.5			0816	1000		8203A	B					
8204	1149	1242	8205A	B		120922	E169.7			1004	1144		8204A	B					
8205	1335	1429	8206A	B		135639	E142.9			1149	1330		8205A	B					
8206	1521	1616	8207A	B		154355	E116.1			1335	1516		8206A	B					
8207	1726	1804	8210A	A		173112	E089.3			1520	1700		8207A	B					
8208	1853	1923	8210A	A		191828	E062.4			1727	1926		8210A	A					
8209	2040	2138	8210A	B		210544	E035.6			2013	2212		8210A	B					
8210						225301	E008.8												
8211	0014	0113	8213R	A		004017	W018.0												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
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THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	THIR	ASC. AND		DESC. NODE	
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG
			+	R	CORR								+	R	CORR				
			STDN	S	LALJ	HRMNSS							STDN	S	LALJ	HRMNSS			
DAYTIME THIR										ASC. NODE									
8212	0113	0145	8213R	A		015359	E148.6			8212	2348	0146	8213R	A					
8212	0146	0202	8213R	B						8213	0147	0345	8213R	B					
8213	0300	0344	8213R	B		032115	E121.7			8214	0407	0549	8214R	B					
8214	0447	0536	8214R	B		050832	E094.9			8215	0557	0726	8215A	B					
8215	0635	0723	8215A	B		065548	E068.1			8216	0732	0914	8216A	B					
8216	0822	0911	8216A	B		084305	E041.3			8217	0919	1103	8217A	B					
8217	1009	1058	8217A	B		103021	E014.5			8218	1109	1244	8218A	B					
8218	1156	1242	8218A	B		121738	W012.4			8219	1249	1431	8219A	B					
8219	1344	1429	8219A	B		140454	W039.2			8220	1436	1615	8220A	B					
8220	1531	1613	8220A	B	1S	155210	W066.0			8221	1620	1759	8221A	B					
8221	1718	1757	8221A	B		173927	W092.8			8222	1804	1942	8222A	B					
8222	1905	1940	8222A	B		192643	W119.6			8223	1948	2130	8223A	B					
8222	1948	1954	8223A	B						8224	2135	2319	8224A	B					
8223	2053	2128	8223A	B		211400	W146.4												
8223	2135	2142	8224A	B															
8224	2240	2317	8224A	B		230116	W173.3												
NIGHTTIME THIR										DESC. NODE									
8212	0202	0300	8213R	B		022734	W044.8			NEMS - SCR - ITPR									
8213	0406	0447	8214R	B		041450	W071.7			-----									
8214	0536	0546	8214R	B		060206	W098.5			2347	0146	8213R	A						
8214	0556	0635	8215A	B						0146	0345	8213R	B						
8215	0731	0822	8216A	B		074923	W125.3			0406	0548	8214R	B						
8216	0919	1009	8217A	B		093639	W152.1			0556	0727	8215A	B						
8217	1109	1156	8218A	B		112356	W178.9			0731	0914	8216A	B						
8218	1249	1344	8219A	B		131112	E154.3			0919	1103	8217A	B						
8219	1436	1531	8220A	B	1N	145828	E127.5			1109	1244	8218A	B						
8220	1620	1718	8221A	B		164545	E100.7			1249	1431	8219A	B						
8221	1807	1905	8222A	B		183301	E073.8			1436	1615	8220A	B						
8222	1954	2053	8223A	B		202018	E047.0			1619	1758	8221A	B						
8223	2142	2240	8224A	B		220734	E020.2			1803	1942	8222A	B						
8224						235451	W006.7			1948	2130	8223A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
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THIR										ESMR									
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		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D	LONG	R			
ORBIT	HRMN	HRMN	STDN	S	LALJ	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S			S		
DAYTIME THIR										ASC. NODE									
8225	0048	0116	8228R	A		004832	E159.9			8226	0049	0247	8228R	A					
8226	0214	0246	8228R	A		023549	E133.1			8227	0247	0445	8227R	B					
8226	0247	0503	8227R	B						8228	0506	0643	8228R	B					
8227	0402	0442	8227R	B		042305	E106.3			8229	0652	0831	8230A	B					
8228	0549	0638	8228R	B		061022	E079.5			8230	0832	1016	8230A	A					
8229	0736	0825	8230A	B		075738	E052.6			8231	1018	1159	8231A	B					
8230	0924	1012	8230A	A		094455	E025.8			8232	1203	1346	8232A	B					
8231	1111	1157	8231A	B		113211	W001.0			8233	1353	1530	8233A	B					
8232	1258	1346	8232A	B		131927	W027.8			8234	1535	1716	8235A	B					
8233	1445	1529	8233A	B		150644	W054.6			8235	1717	1900	8235A	A					
8234	1633	1715	8235A	B		165400	W081.5			8236	1902	2048	8237A	B					
8235	1820	1859	8235A	A		184117	W108.3			8237	2049	2237	8237A	A					
8235	1902	1909	8237A	B															
8236	2007	2042	8237A	B		202833	W135.1												
8236	2048	2056	8237A	A															
8237	2154	2235	8237A	A		221549	W161.9												
NIGHTTIME THIR										DESC. NODE									
8225	0116	0214	8228R	A		014207	W033.5			NEMS - SCR - ITPR									
8226	0303	0402	8227R	B		032923	W060.3			-----									
8227	0506	0549	8228R	B		051640	W087.1			0048	0247	8228R	A						
8228	0638	0646	8228R	B		070356	W113.9			0247	0446	8227R	B						
8228	0653	0736	8230A	B						0506	0643	8228R	B						
8229	0831	0924	8230A	A		085113	W140.7			0652	0832	8230A	B						
8230	1017	1111	8231A	B		103829	W167.6			0832	1017	8230A	A						
8231	1203	1258	8232A	B		122545	E165.6			1018	1159	8231A	B						
8232	1352	1445	8233A	B		141302	E138.8			1203	1347	8232A	B						
8233	1536	1633	8235A	B		160018	E112.0			1352	1531	8233A	B						
8234	1721	1820	8235A	A		174735	E085.2			1536	1716	8235A	B						
8235	1909	2007	8237A	B		193451	E058.4			1716	1901	8235A	A						
8236	2056	2154	8237A	A		212207	E031.5			1902	2048	8237A	B						
8237						230924	E004.7			2049	2237	8237A	A						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
17 AUGUST 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	THIR	ASC. AND		DESC. NODE	
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	HRMNSS	DEG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	HRMNSS	DEG
			STDN	R	CORR								STDN	R	CORR				
				S	LALO									S	LALO				
DAYTIME THIR										ASC. NODE									
8238	0003	0031	8240R	A		000306	E171.3			8239	0004	0202	8240R	A		000306	E171.3		
8239	0129	0201	8240R	A		015022	E144.5			8240	0203	0402	8240R	B		015022	E144.5		
8239	0203	0218	8240R	B		033739	E117.6			8241	0422	0602	8241R	B		033739	E117.6		
8240	0316	0400	8240R	B		052455	E090.8			8242	0607	0745	8242A	B		052455	E090.8		
8241	0503	0552	8241R	B		071212	E064.0			8243	0749	0930	8243A	B		071212	E064.0		
8242	0651	0740	8242A	B		085928	E037.2			8244	0935	1118	8244A	B		085928	E037.2		
8243	0838	0927	8243A	B		104644	E010.4			8245	1123	1304	8245A	B		104644	E010.4		
8244	1025	1114	8244A	B		123401	W016.5			8246	1308	1446	8246A	B		123401	W016.5		
8245	1213	1301	8245A	B		142117	W043.3			8247	1452	1630	8247A	B		142117	W043.3		
8246	1400	1445	8246A	B		160834	W070.1			8248	1635	1815	8248A	B		160834	W070.1		
8247	1547	1629	8247A	B		175550	W096.9			8249	1820	1957	8249A	B		175550	W096.9		
8248	1734	1813	8248A	B		194307	W123.7			8250	2001	2147	8250A	B		194307	W123.7		
8249	1922	1955	8249A	B															
8249	2002	2010	8250A	B															
8250	2109	2146	8250A	B		213023	W150.6												
8251	2319	2345	8254R	A		231739	W177.4												
NIGHTTIME THIR										DESC. NODE									
8238	0031	0129	8240R	A		005640	W022.1			NEMS - SCR - ITPR									
8239	0218	0316	8240R	B		024357	W048.9			-----									
8240	0422	0503	8241R	B		043113	W075.7			0004	0202	8240R	A		0004	0202	8240R	A	
8241	0552	0601	8241R	B		061829	W102.6			0202	0401	8240R	B		0202	0401	8240R	B	
8241	0607	0651	8242A	B		080546	W129.4			0422	0603	8241R	B		0422	0603	8241R	B	
8242	0750	0838	8243A	B		095302	W156.2			0607	0745	8242A	B		0607	0745	8242A	B	
8243	0935	1025	8244A	B		114019	E177.0			0750	0929	8243A	B		0750	0929	8243A	B	
8244	1123	1213	8245A	B		132735	E150.2			0934	1119	8244A	B		0934	1119	8244A	B	
8245	1308	1400	8246A	B		151452	E123.4			1123	1304	8245A	B		1123	1304	8245A	B	
8246*	1452	1547	8247A	B		170208	E096.5			1308	1447	8246A	B		1308	1447	8246A	B	
8247	1636	1734	8248A	B		184924	E069.7			1452	1630	8247A	B		1452	1630	8247A	B	
8248	1823	1922	8249A	B		203641	E042.9			1635	1815	8248A	B		1635	1815	8248A	B	
8249	2010	2109	8250A	B		222357	E016.1			1819	1957	8249A	B		1819	1957	8249A	B	
8250						001114	W010.8			2002	2147	8250A	B		2002	2147	8250A	B	
8251	2345	0043	8254R	A															
*DIFFERENT 6.7 TIMES																			
8246	1458	1547	8247A	B															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
18 AUGUST 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H					
ORBIT	ON	OFF		ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
	HRMN	HRMN	STDN	+	R	CORR	TIME LONG						+	R					
					S	LALO	HRMNSS DEG							S					
DAYTIME THIR										ASC. NODE									
8252	0043	0117	8254R	A			010456 E155.8			8252	2320	0118	8254R	A					
8252	0118	0132	8253R	B						8253	0118	0315	8253R	B					
8253	0231	0316	8253R	B			025212 E129.0			8254	0340	0516	8254R	B					
8254	0418	0507	8254R	B			043929 E102.2			8255	0520	0705	8255R	B					
8255	0605	0654	8255R	B			062645 E075.4			8256	0710	0847	8257A	B					
8256	0752	0841	0857A	B			081401 E048.6			8257			8257A	A					
8257	0940	1029	8257A	A			100118 E021.7			8258	1034	1215	8258A	B					
8258	1127	1214	8258A	B			114834 W005.1			8259	1221	1403	8259A	B					
8259	1314	1401	8259A	B			133551 W031.9			8260	1407	1547	8260A	B					
8260	1502	1545	8260A	B			152307 W058.7												
8261							171024 W085.6												
8262							185740 W112.4												
8263							204456 W139.2												
8264							223213 W166.0												
NIGHTTIME THIR										DESC. NODE									
8252	0132	0231	8253R	B			015830 W037.6			2320	0118	8254R	A						
8253	0340	0418	8254R	B			034546 W064.4			0118	0315	8253R	B						
8254	0507	0514	8254R	B			053303 W091.2			0340	0516	8254R	B						
8254	0521	0605	8255R	B						0521	0705	8255R	B						
8255	0654	0703	8255R	B			072019 W118.0			0710	0847	8257A	B						
8255	0710	0752	8257A	B						0846	1033	8257A	A						
8256	0846	0940	8257A	A			090736 W144.8			1034	1216	8258A	B						
8257	1033	1127	8258A	B			105452 W171.7			1221	1403	8259A	B						
8258	1221	1314	8259A	B			124208 E161.5			1407	1547	8260A	B						
8259	1407	1502	8260A	B			142925 E134.7												
8260							161641 E107.9												
8261							180358 E081.1												
8262							195114 E054.3												
8263							213830 E027.4												
8264							232547 E000.6												
										NEMS - SCR - ITPR									

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
19 AUGUST 1974

THIR							ESMR						
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND				INT	H	
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LUNG			ORBIT	D	
	HRMN	HRMN	STDN	R	CORR		HRMNSS	DEG			STDN	R	
				S	LALD							S	
DAYTIME THIR							ASC. NODE						
8265	0019	0047	8267R	A		001929	E167.2						
8266	0145	0217	8267R	A		020646	E140.4						
8266	0218	0234	8267R	B					8267	0218	0401	8267R	
8267	0332	0416	8267R	B		035402	E113.6		8268	0438	0621	8269A	
8268	0520	0609	8269A	B		054118	E086.7		8269	0625	0804	8269A	
8269	0707	0756	8269A	A		072835	E059.9		8270	0805	0945	8270A	
8270	0854	0943	8270A	B		091551	E033.1		8271	0951	1134	8271A	
8271	1041	1130	8271A	B		110308	E006.3		8272	1139	1315	8272A	
8272	1229	1304	8272A	B		125024	W020.5		8273	1321	1503	8273A	
8273	1416	1501	8273A	B		143741	W047.4		8274	1508	1646	8274A	
8274	1603	1645	8274A	B		162457	W074.2		8275	1652	1827	8275A	
8275	1751	1826	8275A	B		181213	W101.0		8276	1833	2015	8276A	
8275	1833	1839	8276A	B					8277	2021	2136	8277A	
8276	1938	2013	8276A	B		195930	W127.8		8278	2208	2350	8278A	
8276	2021	2027	8277A	B									
8277	2125	2200	8277A	B		214646	W154.6						
8277	2208	2214	8278A	B									
8278	2312	2349	8278A	B		233403	E178.5						
8278	2352	0001	8281R	A									
NIGHTTIME THIR							DESC. NODE						
8265	0047	0145	8267R	A		011303	W026.2		NEMS - SCR - ITPR				
8266	0234	0332	8267R	B		030020	W053.0		0219	0402	8267R	B	
8267	0438	0520	8269A	B		044736	W079.8		0438	0623	8269A	B	
8268	0609	0621	8269A	B		063452	W106.6		0623	0804	8269A	A	
8268	0622	0707	8269A	B					0804	0946	8270A	B	
8269	0756	0802	8269A	B		082209	W133.5		0951	1134	8271A	B	
8269	0804	0854	8270A	B					1139	1316	8272A	B	
8270	0951	1041	8271A	B		100925	W160.3		1321	1503	8273A	B	
8271	1139	1229	8272A	B		115642	E172.9		1508	1647	8274A	B	
8272	1321	1416	8273A	B		134358	E146.1		1652	1828	8275A	B	
8273	1508	1603	8274A	B		153115	E119.3		1833	2015	8276A	B	
8274	1652	1751	8275A	B		171831	E092.4		2021	2136	8277A	B	
8275	1839	1938	8276A	B		190547	E065.6		2208	2351	8278A	B	
8276	2027	2125	8277A	B		205304	E038.8						
8277	2214	2312	8278A	B		224020	E012.0						
8278	0001	0100	8281R	A		002737	W014.8						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
20 AUGUST 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H					
DATA	ON	OFF	ORBIT	+	D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN		R	CORR	TIME	LONG		ORBIT	HRMN	HRMN	STDN	R					
					S	LALO	HRMNSS	DEG						S					
DAYTIME THIR										ASC. NODE									
8279	0100	0148	8281R		A		012119	E151.7		8279	2352	0150	8281R	A					
8280	0247	0336	8280R		B		030835	E124.9		8280	0150	0349	8280R	B					
8281	0434	0523	8281R		B		045552	E098.1		8281	0357	0530	8281R	B					
8282	0621	0710	8282A		B		064308	E071.3		8282	0538	0717	8282A	B					
8283	0809	0858	8283A		B		083025	E044.5		8283	0721	0900	8283A	B					
8284	0956	1043	8284A		B		101741	E017.7		8284	0905	1047	8284A	B					
8285	1143	1230	8285A		B		120458	W009.2		8285	1052	1232	8285A	B					
8286	1330	1416	8286A		B		135214	W036.0		8286	1237	1418	8286A	B					
8287	1518	1559	8287A		B		153930	W062.9		8287	1423	1601	8287A	B					
8288	1705	1746	8288A		B		172647	W089.7		8288	1605	1749	8288A	B					
8289	1852	1926	8289A		B		191403	W116.5		8289	1753	1927	8289A	B					
8289	1934	1941	8290A		B					8290	1933	2120	8290A	B					
8290	2040	2119	8290A		B		210120	W143.3		8291	2126	2306	8291A	B					
8291	2227	2305	8291A		B		224836	W170.1											
NIGHTTIME THIR										DESC. NODE									
8279	0150	0247	8280R		B		021453	W041.7		NEMS - SCR - ITPR									
8280	0336	0348	8280R		B		040209	W068.5		-----									
8280	0357	0434	8281R		B					2352	0150		8281R	A					
8281	0523	0532	8281R		B		054926	W095.3		0150	0350		8280R	B					
8281	0538	0621	8282A		B					0357	0533		8281R	B					
8282	0710	0716	8282A		B		073642	W122.1		0538	0717		8282A	B					
8282	0722	0809	8283A		B					0722	0900		8283A	B					
8283	0905	0956	8284A		B		092359	W148.9		0905	1047		8284A	B					
8284	1052	1143	8285A		B		111115	W175.8		1052	1232		8285A	B					
8285	1236	1330	8286A		B		125831	E157.4		1236	1418		8286A	B					
8286	1423	1518	8287A		B		144548	E130.6		1423	1601		8287A	B					
8287	1607	1705	8288A		B		163304	E103.8		1606	1748		8288A	B					
8288	1754	1852	8289A		B		182021	E077.0		1753	1928		8289A	B					
8289	1941	2040	8290A		B		200737	E050.2		1933	2121		8290A	B					
8290	2128	2227	8291A		B		215453	E023.3		2126	2307		8291A	B					
8291							234210	W003.5											

NEMS - SCR - ITPR

DATA	ON	OFF	INT	H
2352	0150		8281R	A
0150	0350		8280R	B
0357	0533		8281R	B
0538	0717		8282A	B
0722	0900		8283A	B
0905	1047		8284A	B
1052	1232		8285A	B
1236	1418		8286A	B
1423	1601		8287A	B
1606	1748		8288A	B
1753	1928		8289A	B
1933	2121		8290A	B
2126	2307		8291A	B

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
21 AUGUST 1974

THIR										ESMR										
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC.	NODE	DATA			INT	H	DESC.	NODE	DATA			
	ON	OFF	ORBIT	D	GRID	TIME	LONG				ON	OFF	ORBIT	D				ON	OFF	ORBIT
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNS	DEG			ORBIT	HRMN	HRMN	STDN	R			ORBIT	HRMN	HRMN	STDN
DAYTIME THIR										ASC. NODE										
8292	0036	0103	8294R	A		003552	E163.1			8293	0035	0235	8294R	A						
8293	0201	0233	8294R	A		022309	E136.3			8294	0235	0433	8294R	B						
8293	0234	0250	8294R	B						8295	0454	0638	8296A	B						
8294	0349	0432	8294R	B		041025	E109.5			8296	0639	0819	8296A	A						
8295	0536	0625	8296A	B		055742	E082.6			8297	0819	1001	8297A	B						
8296	0723	0812	8296A	A		074458	E055.8			8298	1006	1150	8298A	B						
8297	0910	0959	8297A	B		093215	E029.0			8299	1154	1336	8299A	B						
8298	1058	1147	8298A	B		111931	E002.2			8300	1341	1520	8300A	B						
8299	1245	1334	8299A	B		130647	W024.6			8301	1525	1705	8301A	B						
8300	1432	1518	8300A	B		145404	W051.5			8302	1709	1845	8302A	B						
8301	1619	1703	8301A	B		164120	W078.3			8303	1849	2030	8303A	B						
8302	1807	1842	8302A	B		182837	W105.1													
8302	1849	1856	8303A	B																
8303	1954	2029	8303A	B		201553	W161.9													
8303	2036	2043	8304A	B																
8304	2141	2217	8304A	B		220309	W158.7													
8305	2352	0017	8307R	A		235026	E174.5													
NIGHTTIME THIR										DESC. NODE										
8292	0103	0201	8294R	A		012926	W030.3													
8293	0250	0349	8294R	B		031643	W057.1													
8294	0454	0536	8296A	B		050359	W083.9													
8295	0625	0634	8296A	B		065115	W110.8													
8295	0639	0723	8296A	A																
8296	0819	0910	8297A	B		083832	W137.6													
8297	1006	1058	8298A	B		102548	W164.4													
8298	1154	1245	8299A	B		121305	E168.8													
8299	1342	1432	8300A	B		140021	E142.0													
8300	1525	1619	8301A	B		154737	E115.2													
8301	1709	1807	8302A	B		173454	E088.3													
8302	1807	1842	8302A	B		182837	W105.1													
8302	1856	1954	8303A	B		192210	E061.5													
8303	2043	2141	8304A	B		210927	E034.7													
8304						225643	E007.9													
8305	0017	0116	8307R	A		004359	W018.9													
										NEMS - SCR - ITPR										

										0035	0234	8294R	A							
										0234	0433	8294R	B							
										0454	0639	8296A	B							
										0639	0819	8296A	A							
										0819	1001	8297A	B							
										1006	1150	8298A	B							
										1154	1336	8299A	B							
										1342	1520	8300A	B							
										1525	1704	8301A	B							
										1710	1844	8302A	B							

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
22 AUGUST 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		ON OFF		INT	H				
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE			ORBIT	ON	OFF	ORBIT	D	DESC.	NODE			
	HRMN	HRMN	STDN	R	CORR	TIME	LONG				HRMN	HRMN	STDN	R	TIME	LONG			
				S	LALO	HRMNSS	DEG							S					
DAYTIME THIR										ASC. NODE									
8306	0116	0149	8307R	A		013742	E147.6			8306	2352	0150	8307R	A					
8306	0150	0205	8307R	B						8307	0150	0349	8307R	B					
8307	0303	0348	8307R	B		032459	E120.8			8308	0410	0554	8309A	B					
8308	0450	0539	8309A	B		051215	E094.0			8309	0554	0735	8310A	A					
8309	0638	0726	8310A	A		065931	E067.2			8310	0735	0915	8310A	B					
8310	0825	0914	8310A	B		084648	E040.4			8311	0920	1103	8311A	B					
8311	1012	1101	8311A	B		103404	E013.5			8312	1108	1249	8312A	B					
8312	1159	1248	8312A	B		122121	W013.3			8313	1255	1434	8313A	B					
8313	1347	1432	8313A	B		140837	W040.1			8314	1438	1617	8314A	B					
8314	1534	1615	8314A	B		155554	W066.9			8315	1622	1802	8315A	B					
8315	1721	1800	8315A	B		174310	W093.8			8316	1807	1946	8316A	B					
8316	1908	1945	8316A	B		193026	W120.6			8317	1951	2136	8317A	B					
8316	1951	1957	8317A	B						8318	2142	2322	8318A	B					
8317	2056	2135	8317A	B		211743	W147.4												
8318	2243	2321	8318A	B		230459	W174.2												
NIGHTTIME THIR										DESC. NODE									
8306	0205	0303	8307R	B		023116	W045.8			NEMS - SCR - ITPR									
8307	0410	0450	8309A	B		041832	W012.6			2352	0151	8307R	A						
8308	0539	0553	8309A	B		060549	W099.4			0150	0349	8307R	B						
8308	0555	0638	8310A	A						0410	0555	8309A	B						
8309	0726	0734	8310A	A		075305	W126.2			0555	0736	8310A	A						
8309	0735	0825	8310A	B						0735	0915	8310A	B						
8310	0920	1012	8311A	B		094022	W153.0			0920	1103	8311A	B						
8311	1108	1159	8312A	B		112738	W179.9			1108	1250	8312A	B						
8312	1255	1347	8313A	B		131454	E153.3			1255	1434	8313A	B						
8313	1438	1534	8314A	B		150211	E126.5			1438	1617	8314A	B						
8314	1623	1721	8315A	B		164927	E099.7			1622	1802	8315A	B						
8315	1810	1908	8316A	B		183644	E072.9			1807	1946	8316A	B						
8316	1957	2056	8317A	B		202400	E046.1			1951	2137	8317A	B						
8317	2145	2243	8318A	B		221116	E019.2			2142	2332	8318A	B						
8318						235833	W007.6												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
23 AUGUST 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	DESC. NODE		DESC. NODE		
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	DEG	TIME	DEG	
			STDN	S	LALO	HRMNSS							STDN	S					
DAYTIME THIR										ASC. NODE									
8319						005216	E159.0			8321	0251	0450	8324A	A					
8320	0252	0306	8324A	A		023932	E132.2			8322	0450	0648	8322R	B					
8321	0405	0449	8324A	A		042648	E105.4			8323	0657	0831	8323A	B					
8322	0552	0641	8322R	B		061405	E078.5			8324	0836	1015	8324A	B					
8323	0739	0828	8323A	B		080121	E051.7			8325	1021	1208	8325A	B					
8324	0927	1014	8324A	B		094838	E024.9			8326	1213	1351	8326A	B					
8325	1114	1203	8325A	B		113554	W001.9			8327	1356	1535	8327A	B					
8326	1301	1349	8326A	B		132311	W028.7			8328	1540	1718	8328A	B					
8327	1448	1534	8327A	B		151027	W055.6			8329	1723	1859	8329A	B					
8328	1636	1716	8328A	B		165743	W082.4			8330	1904	2046	8330A	B					
8329	1823	1857	8329A	B		184500	W109.2			8331	2052	2235	8331A	B					
8329	1904	1912	8330A	B															
8330	2010	2045	8330A	B		203216	W136.0												
8330	2052	2059	8331A	B															
8331	2157	2233	8331A	B		221933	W162.8												
NIGHTTIME THIR										DESC. NODE									
8319						014549	W034.4			0251	0450	8324A	A						
8320	0306	0405	8324A	A		033306	W061.2			0450	0649	8322R	B						
8321	0454	0552	8322R	B		052022	W088.0			0657	0832	8323A	B						
8322	0641	0648	8322R	B		070738	W114.9			0836	1016	8324A	B						
8322	0657	0739	8323A	B						1021	1208	8325A	B						
8323	0836	0927	8324A	B		085455	W141.7			1212	1351	8326A	B						
*8324	1021	1114	8325A	B		104211	W168.5			1356	1536	8327A	B						
8325	1213	1301	8326A	B		122928	E164.7			1540	1719	8328A	B						
8326	1356	1448	8327A	B		141644	E137.9			1723	1859	8329A	B						
8327	1540	1636	8328A	B		160400	E111.0			1904	2047	8330A	B						
8328	1725	1823	8329A	B		175117	E084.2			2052	2235	8331A	B						
8329	1912	2010	8330A	B		193833	E057.4												
8330	2059	2157	8331A	B		212550	E030.6												
8331						231306	E003.8												
*DIFFERENT 6.7 TIMES																			
8324	1031	1114	8325A	B															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
24 AUGUST 1974

THIR										ESMR							
-----										-----							
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H				
DATA	ON	OFF	ORBIT	R	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D				
ORBIT	HRMN	HRMN	STDN	S	CORR	TIME	LUNG		ORBIT	HRMN	HRMN	STDN	R				
					LALJ	HRMNSS	DEG						S				
DAYTIME THIR										ASC. NODE							
8332	0007	0034	8334R	A		000649	E170.3		8333	0008	0205	8334R	A				
8333	0132	0205	8334R	A		015405	E143.5		8334	0207	0404	8334R	B				
8333	0206	0221	8334R	B					8335	0425	0605	8335R	B				
8334	0319	0404	8334R	B		034122	E116.7		8336	0611	0747	8337A	B				
8335	0507	0555	8335R	B		052038	E089.9		8337	0749	0935	8337A	A				
8336	0654	0742	8337A	B		071555	E063.1		8338	0936	1120	8338A	B				
8337	0841	0930	8337A	A		090311	E036.3		8339	1125	1308	8339A	B				
8338	1028	1117	8338A	B		105028	E009.4		8340	1313	1451	8340A	B				
8339	1216	1304	8339A	B		123744	W017.4		8341	1457	1633	8341A	B				
8340	1403	1450	8340A	B		142500	W044.2		8342	1638	1815	8342A	B				
8341	1550	1632	8341A	B		161217	W071.0		8343	1820	2003	8343A	B				
8342	1737	1814	8342A	B		175933	W097.8		8344	2008	2154	8344A	B				
8342	1820	1826	8343A	B					8345	2159	2237	8345A	B				
8343	1925	2002	8343A	B		194650	W124.7										
8344	2112	2152	8344A	B		213406	W151.5										
8345	2259	2336	8345A	B		232122	W178.3										
8345	2337	2348	8348R	A													
NIGHTTIME THIR										DESC. NODE				NEMS - SCR - ITPR			

8332	0034	0132	8334R	A		010022	W023.0		0008	0205		8334R	A				
8333	0221	0319	8334R	B		024739	W049.9		0206	0404		8334R	B				
8334	0425	0507	8335R	B		043455	W076.7		0425	0606		8335R	B				
8335	0555	0603	8335R	B		062212	W103.5		0611	0747		8337A	B				
8335	0611	0654	8337A	B					0747	0936		8337A	A				
8336	0747	0841	8337A	A		080928	W130.3		0936	1120		8338A	B				
8337	0936	1028	8338A	B		095644	W157.1		1125	1308		8339A	B				
8338	1125	1216	8339A	B		114401	E176.0		1313	1452		8340A	B				
8339	1313	1403	8340A	B		133117	E149.2		1457	1634		8341A	B				
8340	1457	1550	8341A	B		151834	E122.4		1638	1816		8342A	B				
8341	1639	1737	8342A	B		170550	E095.6		1820	2004		8343A	B				
8342	1826	1925	8343A	B		185306	E068.8		2008	2154		8344A	B				
8343	2013	2112	8344A	B		204023	E041.9		2159	2337		8345A	B				
8344	2201	2259	8345A	B		222739	E015.1										
8345	2348	0046	8348R	A		001456	W011.7										

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
25 AUGUST 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA	ON		OFF	INT	H				
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	HRMN	HRMN	HRMN	ORBIT	D	TIME	LONG	DESC.	NODE
	HRMN	HRMN	STDN	S	LALO	HRMNSS	DEG							STDN	S				
DAYTIME THIR										ASC. NODE									
8346	0046	0134	8348R	A		010845	E154.8			8346	2338	0136		8348R	A				
8347	0234	0323	8347R	B		025602	E128.0			8347	0137	0335		8347R	B				
8348	0421	0510	8348R	B		044318	E101.2			8348	0343	0520		8348R	B				
8349	0608	0657	8350A	B		063034	E074.4			8349	0524	0710		8350A	B				
8350	0756	0844	8350A	A		081751	E047.6			8350	0710	0850		8350A	A				
8351	0943	1032	8351A	B		100507	E020.8			8351	0852	1038		8351A	B				
8352	1130	1219	8352A	B		115224	W006.1			8352	1044	1220		8352A	B				
8353	1317	1405	8353A	B		133940	W032.9			8353	1227	1406		8353A	B				
8354	1505	1547	8354A	B		152657	W059.7			8354	1412	1549		8354A	B				
8355	1652	1734	8355A	B		171413	W086.5			8355	1554	1735		8355A	B				
8356	1839	1914	8356A	B		190130	W113.3			8356	1740	1916		8356A	B				
8356	1921	1928	8357A	B						8357	1920	2052		8357A	B				
8357	2026	2104	8357A	B		204846	W140.2			8358	2110	2251		8358A	B				
8358	2214	2250	8358A	B		223602	W167.0												
NIGHTTIME THIR										DESC. NODE									
8346	0136	0234	8347R	B		020218	W038.5			NEMS - SCR - ITPR									
8347	0323	0334	8347R	B		034935	W065.4			-----									
8347	0343	0421	8348R	B						2337	0136			8348R	A				
8348	0510	0518	8348R	B		053651	W092.2			0136	0335			8347R	B				
8348	0525	0608	8350A	B						0343	0520			8348R	B				
8349	0657	0709	8350A	B		072408	W119.0			0524	0711			8350A	B				
8349	0711	0756	8350A	A						0711	0851			8350A	A				
8350	0844	0850	8350A	A		091124	W145.8			0852	1039			8351A	B				
8350	0852	0943	8351A	B						1044	1221			8352A	B				
8351	1043	1130	8352A	B		105840	W172.6			1227	1407			8353A	B				
8352	1227	1317	8353A	B		124557	E160.5			1412	1549			8354A	B				
8353	1412	1505	8354A	B		143313	E133.7			1554	1735			8355A	B				
8354	1554	1652	8355A	B		162030	E106.9			1740	1916			8356A	B				
8355	1741	1839	8356A	B		180746	E080.1			1921	2106			8357A	B				
8356	1928	2026	8357A	B		195503	E053.3			2111	2251			8358A	B				
8357	2115	2214	8358A	B		214219	E026.5												
8358						232935	W000.4												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
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THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H					
DATA	ON	OFF	ORBIT	D	GRID	DESC.	TIME	NODE		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	LONG				ORBIT	HRMN	HRMN	STDN	R					
				S	LALD	HRMNSS	DEG							S					
DAYTIME THIR										ASC. NODE									
8359	0023	0050	8361R	A		002319	E166.2			8360	0023	0223	8361R	A					
8360	0148	0221	8361R	A		021035	E139.4			8361	0223	0421	8361R	B					
8360	0223	0237	8361R	B						8362	0441	0621	8362R	B					
8361	0336	0420	8361R	B		035752	E112.6			8363	0627	0806	8363A	B					
8362	0523	0612	8362R	B		054508	E085.7			8364	0811	0949	8364A	B					
8363	0710	0759	8363A	B		073225	E058.9			8365	0954	1133	8365A	B					
8364	0857	0946	8364A	B		091941	E032.1			8366	1138	1322	8366A	B					
8365	1045	1132	8365A	B		110657	E005.3			8367	1328	1507	8367A	B					
8366	1232	1321	8366A	B		125414	W021.5			8368	1512	1648	8368A	B					
8367	1419	1506	8367A	B		144130	W048.4			8369	1654	1837	8369A	B					
8368	1606	1648	8368A	B		162847	W075.2			8370	1844	2025	8370A	B					
8369	1754	1837	8369A	B		181603	W102.0			8371	2030	2210	8371A	B					
8370	1941	2024	8370A	B		200320	W128.8			8372	2216	2355	8372A	B					
8371	2128	2209	8371A	B		215036	W155.6												
8372	2315	2353	8372A	B		233753	E177.6												
8372	2354	0004	8374R	A															
NIGHTTIME THIR										DESC. NODE									
8359	0050	0148	8361R	A		011652	W027.2			NEMS - SCR - ITPR									
8360	0237	0336	8361R	B		030408	W054.0			-----									
8361	0441	0523	8362R	B		045125	W080.8			0024	0222	8361R	A						
8362	0612	0621	8362R	B		063841	W107.6			0222	0421	8361R	B						
8362	0627	0710	8363A	B						0441	0621	8362R	B						
*8363	0759	0805	8363A	B		082558	W134.5			0627	0807	8363A	B						
8363	0811	0857	8364A	B						0811	0949	8364A	B						
8364	0954	1045	8365A	B						0954	1133	8365A	B						
8365	1138	1232	8366A	B		101314	W161.3			1138	1323	8366A	B						
8366	1328	1419	8367A	B		120030	E171.9			1328	1508	8367A	B						
8367	1512	1606	8368A	B		129030	E171.9			1512	1649	8368A	B						
8368	1655	1754	8369A	B		134747	E145.1			1654	1839	8369A	B						
8369	1844	1941	8370A	B		153503	E118.3			1844	2025	8370A	B						
8370	2030	2128	8371A	B		172220	E091.5			2030	2211	8371A	B						
8371	2217	2315	8372A	B		190936	E064.6			2216	2355	8372A	B						
8372	0004	0103	8374R	A		205653	E037.8												
						224409	E011.0												
						003125	W015.8												
*NO 11.5 DATA																			

*NO 11.5 DATA

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
27 AUGUST 1974

THIR						ESMR											
-----						-----											
11.5 + 6.7		INT	H	THIR	ASC. AND			INT	H								
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	ORBIT	D								
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG		R								
				S	LALO	HRMNSS	DEG		S								
DAYTIME THIR						ASC. NODE											
8373	0103	0151	8374R	A		012509	E150.8	8373	2353	0144	8374R	A					
8374	0250	0339	8374R	B		031225	E124.0	8374	0152	0351	8374R	B					
8375	0437	0526	8375R	B		045942	E097.1	8375	0357	0535	8375R	B					
8376	0625	0713	8376A	B		064658	E070.3	8376	0543	0718	8376A	B					
8377	0812	0901	8377A	B		083415	E043.5	8377	0723	0904	8377A	B					
8378	0959	1048	8378A	B		102131	E016.7	8378	0909	1052	8378A	B					
8379	1146	1235	8379A	B		120848	W010.2	8379	1057	1239	8379A	B					
8380	1334	1421	8380A	B		135604	W037.0	8380	1245	1423	8380A	B					
8381	1521	1607	8381A	B		154320	W063.8	8381	1428	1608	8381A	B					
8382	1708	1751	8382A	B		173037	W090.6	8382	1613	1751	8382A	B					
8383	1855	1932	8383A	B		191753	W117.4	8383	1757	1934	8383A	B					
8384	2043	2120	8384A	B		210510	W144.2	8384	1938	2120	8384A	B					
8385	2230	2307	8385A	B		225226	W171.1	8385	2126	2309	8385A	B					
NIGHTTIME THIR						DESC. NODE						NEMS - SCR - ITPR					
-----						-----						-----					
8373	0153	0250	8374R	B		021842	W042.6	2354	0140	8374R	A						
8374	0339	0350	8374R	B		040558	W069.5	0152	0351	8374R	B						
8374	0357	0437	8375R	B				0357	0535	8375R	B						
8375	0526	0536	8375R	B		055315	W096.3	0543	0718	8376A	B						
8375	0543	0625	8376A	B				0723	0904	8377A	B						
8376	0723	0812	8377A	B		074031	W123.1	0909	1052	8378A	B						
8377	0909	0959	8378A	B		092748	W149.9	1057	1240	8379A	B						
8378	1057	1146	8379A	B		111504	W176.7	1245	1424	8380A	B						
8379	1245	1334	8380R	B		130220	E156.5	1428	1608	8381A	B						
8380	1429	1521	8381A	B		144937	E129.7	1613	1751	8382A	B						
8381	1613	1708	8382A	B		163653	E102.8	1757	1934	8383A	B						
8382	1758	1855	8383A	B		182410	E076.0	1938	2121	8384A	B						
8383	1944	2043	8384A	B		201126	E049.2	2126	2309	8385A	B						
8384	2131	2230	8385A	B		215843	E022.4										
8385						234559	W004.5										

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
28 AUGUST 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
8386	0040	0106	8388R	A		003943	E162.1			8387	0040	0238	8388R	A					
8387	0204	0237	8388R	A		022659	E135.3			8388	0238	0437	8388R	B					
8387	0239	0253	8388R	B						8389	0457	0637	8389R	B					
8388	0352	0435	8388R	B		041416	E108.5			8390	0645	0818	8390A	B					
8389	0539	0628	8389R	B		060132	E081.7			8391	0823	1006	8391A	B					
8390	0726	0815	8390A	B		074848	E054.9			8392	1010	1149	8392A	B					
8391	0914	1002	8391A	B		093605	E028.0			8393	1154	1339	8393A	B					
8392	1101	1148	8392A	B		112321	E001.2			8394	1345	1524	8394A	B					
8393	1248	1337	8393A	B		131038	W025.6			8395	1528	1705	8395A	B					
8394	1435	1519	8394A	B		145754	W052.5			8396	1710	1851	8396A	B					
8395	1623	1703	8395A	B		164511	W079.3			8397	1857	2036	8397A	B					
8396	1810	1851	8396A	B		183227	W106.1			8398	2042	2224	8398A	B					
8397	1957	2034	8397A	B		201943	W132.9												
8398	2144	2222	8398A	B		220700	W159.7												
8399	2355	0020	8401R	A		235416	E173.5												
NIGHTTIME THIR										DESC. NODE									
8386	0106	0204	8388R	A		013315	W031.3			NEMS - SCR - ITPR									
8387	0253	0352	8388R	B		032032	W058.1			-----									
8388	0458	0539	8389R	B		050748	W084.9			0039	0238	8388R	A						
8389	0628	0638	8389R	B		065505	W111.7			0238	0437	8388R	B						
8389	0645	0726	8390A	B						0457	0640	8389R	B						
8390	0823	0914	8391A	B		084221	W138.6			0645	0819	8390A	B						
8391	1011	1101	8392A	B		102938	W165.4			0823	1006	8391A	B						
8392	1154	1248	8393A	B		121654	E167.8			1011	1150	8392A	B						
8393	1344	1435	8394A	B		140410	E141.0			1154	1340	8393A	B						
8394	1528	1623	8395A	B		155127	E114.2			1344	1524	8394A	B						
8395	1711	1810	8396A	B		173843	E087.4			1528	1705	8395A	B						
8396	1859	1957	8397A	B		192600	E060.6			1710	1852	8396A	B						
8397	2046	2144	8398A	B		211316	E033.7			1858	2037	8397A	B						
8398						230033	E006.9			2042	2224	8398A	B						
8399	0020	0119	8401R	A		004749	W019.9												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
29 AUGUST 1974

THIR										ESMR									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D	DESC.	NODE		
ORBIT	HRMN	HRMN	STDN		R	CORR	TIME	LONG		ORBIT	HRMN	HRMN	STDN		R	TIME	LONG		
					S	LALO	HRMNSS	DEG							S				
DAYTIME THIR										ASC. NODE									
8400	0119	0152		8401R	A		014133	E146.7		8400	0056	0154		8401R	A				
8400	0154	0208		8401R	B					8401	0154	0352		8401R	B				
8401	0306	0350		8401R	B		032849	E119.8		8402	0414	0558		8403A	B				
8402	0453	0542		8403A	B		051606	E093.0		8403	0557	0739		8404A	A				
8403	0641	0730		8404A	A		070322	E066.2		8404	0739	0918		8404A	B				
8404	0828	0917		8404A	B		085039	E039.4		8405	0923	1110		8405A	B				
8405	1015	1104		8405A	B		103755	E012.6		8406	1115	1251		8406A	B				
8406	1203	1249		8406A	B		122511	W014.3		8407	1255	1436		8407A	B				
8407	1350	1435		8407A	B		141228	W041.1		8408	1442	1621		8408A	B				
8408	1537	1619		8408A	B		155944	W067.9		8409	1626	1807		8409A	B				
8409	1724	1804		8409A	B		174701	W094.7		8410	1812	1952		8410A	B				
8410	1912	1950		8410A	B		193417	W121.5		8411	1957	2135		8411A	B				
8411	2059	2135		8411A	B		212134	W148.3		8412	2142	2326		8412A	B				
8412	2246	2324		8412A	B		230850	W175.2											
NIGHTTIME THIR										DESC. NODE									
8400	0208	0306		8401R	B		023505	W046.7		8400	0208	0306		8401R	B				
8401	0414	0453		8403A	B		042222	W073.5		8401	0414	0558		8403A	B				
8402	0542	0555		8403A	B		060938	W100.4		8402	0542	0555		8403A	B				
8402	0558	0641		8404A	A					8402	0558	0641		8404A	A				
8403	0730	0738		8404A	A		075655	W127.2		8403	0730	0738		8404A	A				
8403	0738	0828		8404A	B					8403	0738	0828		8404A	B				
8404	0923	1015		8405A	B		094411	W154.0		8404	0923	1015		8405A	B				
8405	1116	1203		8406A	B		113128	E179.2		8405	1116	1203		8406A	B				
8406	1256	1350		8407A	B		131844	E152.4		8406	1256	1350		8407A	B				
8407	1442	1537		8408A	B		150600	E125.5		8407	1442	1537		8408A	B				
8408	1626	1724		8409A	B		165317	E098.7		8408	1626	1724		8409A	B				
8409	1813	1912		8410A	B		184033	E071.9		8409	1813	1912		8410A	B				
8410	2000	2059		8411A	B		202750	E045.1		8410	2000	2059		8411A	B				
8411	2148	2246		8412A	B		221506	E018.3		8411	2148	2246		8412A	B				
8412							000223	W008.6		8412									
										NEMS - SCR - ITPR									
										2356	0154			8401R	A				
										0154	0352			8401R	B				
										0414	0558			8403A	B				
										0558	0740			8404A	A				
										0739	0918			8404A	B				
										0923	1111			8405A	B				
										1115	1251			8406A	B				
										1256	1437			8407A	B				
										1442	1621			8408A	B				
										1626	1807			8409A	B				
										1812	1952			8410A	B				
										1957	2136			8411A	B				
										2142	2326			8412A	B				

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
30 AUGUST 1974

THIR										ESMR				
-----										-----				
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC.	TIME	LONG	DATA	ON	OFF	ORBIT	D	
ORBIT	HRMN	HRMN	+ STON	R	CORR	HRMNSS	DEG		ORBIT	HRMN	HRMN	+ STON	R	
				S	LALJ								S	
DAYTIME THIR					ASC. NODE									
8413	0056	0122	8415R	A		005606	E158.0		8414	0056	0254	8415R	A	
8414	0221	0253	8415R	A		024323	E131.2		8415	0254	0452	8415R	B	
8414	0254	0309	8415R	B					8416	0513	0657	8417A	B	
8415	0408	0452	8415R	B		043039	E104.4		8417	0700	0838	8417A	A	
8416	0555	0644	8417A	B		061756	E077.6		8418	0839	1021	8418A	B	
8417	0742	0831	8417A	A		080512	E050.7		8419	1026	1205	8419A	B	
8418	0930	1019	8418A	B		095229	E023.9		8420	1211	1354	8420A	B	
8419	1117	1205	8419A	B		113945	W002.9		8421	1359	1537	8421A	B	
8420	1304	1353	8420A	B		132702	W029.7		8422	1542	1722	8422A	B	
8421	1452	1536	8421A	B		151418	W056.5		8423	1727	1904	8423A	B	
8422	1639	1721	8422A	B		170134	W083.4		8424	1909	2052	8424A	B	
8423	1826	1903	8423A	B		184851	W110.2		8425	2056	2240	8425A	B	
8423	1909	1915	8424A	B										
8424	2013	2050	8424A	B		203807	W137.0							
8424	2057	2102	8425A	B										
8425	2201	2239	8425A	B		222324	W163.9							
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR				

8413	0122	0221	8415R	A		014939	W035.4		0055	0254		8415R	A	
8414	0309	0408	8415R	B		033655	W062.2		0254	0453		8415R	B	
8415	0513	0555	8417A	B		052412	W089.0		0513	0659		8417A	B	
8416	0644	0654	8417A	B		071128	W115.8		0659	0838		8417A	A	
8416	0659	0742	8417A	A					0839	1022		8418A	B	
8417	0831	0836	8417A	A		085845	W142.6		1026	1206		8419A	B	
8417	0839	0930	8418A	B					1211	1354		8420A	B	
8418	1026	1117	8419A	B		104601	W169.5		1359	1538		8421A	B	
8419	1211	1304	8420A	B		123318	E163.7		1542	1723		8422A	B	
8420	1359	1452	8421A	B		142034	E136.9		1727	1904		8423A	B	
8421	1542	1639	8422A	B		160750	E110.1		1909	2052		8424A	B	
8422	1728	1826	8423A	B		175507	E083.3		2056	2240		8425A	B	
8423	1915	2013	8424A	B		194223	E056.4							
8424	2102	2201	8425A	B		212940	E029.6							
8425						231656	E002.8							

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
31 AUGUST 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALJ									S					
DAYTIME THIR										ASC. NODE									
8426						001040	E169.3			8427	0041	0210	8428R	A					
8427	0135	0209	8428R	A		015757	E142.5			8428	0210	0410	8428R	B					
8427	0210	0224	8428R	B						8429	0432	0610	8429R	B					
8428	0322	0408	8428R	B		034513	E115.7			8430	0615	0750	8430A	B					
8429	0510	0558	8429R	B		053229	E088.9			8431	0755	0935	8431A	B					
8430	0657	0746	8430A	B		071946	E062.1			8432	0941	1125	8432A	B					
8431	0844	0933	8431A	B		090702	E035.2			8433	1131	1308	8433A	B					
8432	1031	1120	8432A	B		105419	E008.4			8434	1314	1454	8434A	B					
8433	1219	1305	8433A	B		124135	W018.4			8435	1458	1637	8435A	B					
8434	1406	1452	8434A	B		142852	W045.2			8436	1642	1821	8436A	B					
8435	1553	1635	8435A	B		161608	W072.0			8437	1827	2005	8437A	B					
8436	1740	1820	8436A	B		180324	W098.9			8438	2010	2152	8438A	B					
8437	1928	2003	8437A	B		195041	W125.7			8439	2157	2340	8439A	B					
8437	2010	2017	8438A	B															
8438	2115	2150	8438A	B		213757	W152.5												
8438	2158	2204	8439A	B															
8439	2302	2338	8439A	B		232514	W179.3												
8439	2341	2351	8442R	A															
NIGHTTIME THIR										DESC. NODE									
8426	0040	0135	8428R	A		010413	W024.1			NEMS - SCR - ITPR									
8427	0224	0322	8428R	B		025129	W050.9			0040	0210		8428R	A					
8428	0433	0510	8429A	B		043845	W077.7			0210	0409		8428R	B					
8429	0558	0609	8429R	B		062602	W104.5			0432	0610		8429R	B					
8429	0616	0657	8430A	B						0616	0750		8430A	B					
8430	0755	0844	8431A	B		081318	W131.3			0755	0936		8431A	B					
8431	0942	1031	8432A	B		100035	W158.2			0942	1125		8432A	B					
8432	1131	1219	8433A	B		114751	E175.0			1131	1309		8433A	B					
8433	1314	1406	8434A	B		133508	E148.2			1314	1454		8434A	B					
8434	1458	1553	8435A	B		152224	E121.4			1458	1638		8435A	B					
8435	1642	1740	8436A	B		170940	E094.6			1642	1822		8436A	B					
8436	1829	1928	8437A	B		185657	E067.8			1827	2005		8437A	B					
8437	2017	2115	8438A	B		204413	E040.9			2010	2152		8438A	B					
8438	2204	2302	8439A	B		223130	E014.1			2158	2340		8439A	B					
8439	2351	0050	8442R	A		001846	W012.7												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
1 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG		
DAYTIME THIR										ASC. NODE									
8440	0050	0138	8442R	A		011227	E153.9			8440	2342	0139	8442R	A					
8441	0237	0326	8441R	B		025943	E127.1			8441	0140	0339	8441R	B					
8442	0424	0513	8442R	B		044659	E100.2			8442	0348	0523	8442R	B					
8443	0611	0700	8444A	B		063416	E073.4			8443	0529	0715	8444A	B					
8444	0759	0847	8444A	A		082132	E046.6			8444	0715	0856	8444A	A					
8445	0946	1035	8445A	B		100849	E019.8			8445	0858	1038	8445A	B					
8446	1133	1220	8446A	B		115605	W007.0			8446	1044	1222	8446A	B					
8447	1320	1407	8447A	B		134322	W033.9			8447	1227	1410	8447A	B					
8448	1508	1551	8448A	B		153038	W060.7			8448	1415	1551	8448A	B					
8449	1655	1735	8449A	B		171754	W087.5			8449	1557	1736	8449A	B					
8450	1842	1919	8450A	B		190511	W114.3			8450	1750	1920	8450A	B					
8450	1925	1931	8451A	B						8451	1925	2112	8451A	B					
8451	2029	2111	8451A	B		205227	W141.1			8452	2118	2257	8452A	B					
8452	2217	2255	8452A	B		223944	W167.9												
NIGHTTIME THIR										DESC. NODE									
8440	0140	0237	8441R	B		020559	W039.5			NEMS - SCR - ITPR									
8441	0326	0339	8441R	B		035315	W066.3			-----									
8441	0348	0424	8442R	B						2342	0140		8442R	A					
8442	0513	0522	8442R	B		054032	W093.1			0140	0339		8441R	B					
8442	0529	0611	8444A	B						0347	0523		8442R	B					
8443	0700	0713	8444A	B		072748	W120.0			0529	0715		8444A	B					
8443	0715	0759	8444A	A						0715	0857		8444A	A					
8444	0847	0855	8444A	A		091504	W146.8			0858	1039		8445A	B					
8444	0858	0946	8445A	B						1044	1222		8446A	B					
8445	1044	1133	8446A	B		110221	W173.6			1227	1410		8447A	B					
8446	1227	1320	8447A	B		124937	E159.6			1415	1552		8448A	B					
8447	1415	1508	8448A	B		143654	E132.8			1557	1737		8449A	B					
8448	1557	1655	8449A	B		162410	E106.0			1750	1921		8450A	B					
8449	1750	1842	8450A	B		181126	E079.1			1925	2112		8451A	B					
8450	1931	2029	8451A	B		195843	E052.3			2118	2257		8452A	B					
8451	2118	2217	8452A	B		214559	E025.5												
8452						233316	W001.3												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
2 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	+	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	+	R					
			STDN	S	LALJ	HRMNSS	DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
8453						002700	E165.2			8456	0349	0548	8457A	A					
8454						021417	E138.4			8457	0548	0748	8457A	B					
8455	0350	0427	8457A	A		040133	E111.6			8458	0812	0952	8458A	B					
8456	0526	0546	8457A	A		054849	E084.8			8459	0958	1143	8459A	B					
8456	0548	0615	8457A	B						8460	1148	1324	8460A	B					
8457	0713	0746	8457A	B		073606	E058.0			8461	1329	1509	8461A	B					
8458	0900	0949	8458A	B		092322	E031.2			8462	1514	1652	8462A	B					
8459	1048	1136	8459A	B		111039	E004.3			8463	1658	1836	8463A	B					
8460	1235	1323	8460A	B		125755	W022.5			8464	1841	2025	8465A	B					
8461	1422	1507	8461A	B		144511	W049.3			8465	2025	2214	8465A	A					
8462	1609	1650	8462A	B		163228	W076.1			8466	2215	2359	8466A	B					
8463	1757	1834	8463A	B		181944	W103.0												
8464	1944	2024	8465A	B		200701	W129.8												
8464	2025	2033	8465A	A															
8465	2131	2212	8465A	A		215417	W156.6												
8465	2215	2220	8466A	B															
8466	2318	2357	8466A	B		234134	E176.6												
NIGHTTIME THIR										DESC. NODE									
										NEMS - SCR - ITPR									
-----										-----									
8453						012032	W028.1			0350	0548	8457A	A						
8454						030749	W055.0			0548	0747	8457A	B						
8455	0427	0526	8457A	A		045505	W081.8			0812	0952	8458A	B						
8456	0615	0713	8457A	B		064221	W108.6			0959	1142	8459A	B						
8457	0812	0900	8458A	B		082938	W135.4			1148	1324	8460A	B						
8458	0958	1048	8459A	B		101654	W162.2			1329	1509	8461A	B						
8459	1148	1235	8460A	B		120411	E170.9			1514	1652	8462A	B						
8460	1329	1422	8461A	B		135127	E144.1			1659	1836	8463A	B						
8461	1513	1609	8462A	B		153843	E117.3			1841	2025	8465A	B						
8462	1658	1757	8463A	B		172600	E090.5			2026	2214	8465A	A						
8463	1845	1944	8465A	B		191316	E063.7			2215	2359	8466A	B						
8464	2033	2131	8465A	A		210033	E036.9												
8465	2220	2318	8466A	B		224749	E010.0												
8466						003505	W016.8												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
3 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC.	NODE			DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LONG			ORBIT	HRMN	HRMN	STDN	R					
				S	LALD	HRMNSS	DEG							S					
DAYTIME THIR										ASC. NODE									
8467	0126	0154	8469R	A		012850	E149.8			8468	0126	0325	8469R	A					
8468	0253	0324	8469R	A		031606	E123.0			8469	0325	0524	8469R	B					
8468	0325	0342	8469R	B						8470	0547	0723	8470A	B					
8469	0440	0523	8469R	B		050323	E096.1			8471	0727	0909	8471A	B					
8470	0628	0716	8470A	B		065039	E069.3			8472	0914	1053	8472A	B					
8471	0815	0904	8471A	B		083756	E042.5			8473	1100	1241	8473A	B					
8472	1002	1051	8472A	B		102512	E015.7			8474	1246	1424	8474A	B					
8473	1149	1238	8473A	B		121228	W011.1			8475	1429	1609	8475A	B					
8474	1337	1421	8474A	B		135945	W038.0			8476	1614	1754	8476A	B					
8475	1524	1607	8475A	B		154701	W064.8			8477	1800	1935	8477A	B					
8476	1711	1753	8476A	B		173418	W091.6			8478	1943	2123	8478A	B					
8477	1858	1934	8477A	B		192134	W118.4			8479	2128	2311	8479A	B					
8478	2046	2122	8478A	B		210851	W145.2												
8478	2128	2134	8479A	B															
8479	2233	2310	8479A	B		225607	W172.0												
NIGHTTIME THIR										DESC. NODE									
										NEMS - SCR - ITPR									
-----										-----									
8467	0154	0253	8469R	A		022222	W043.6			0127	0325	8469R	A						
8468	0342	0440	8469R	B		040938	W070.4			0325	0524	8469R	B						
8469	0548	0628	8470A	B		055655	W097.2			0548	0723	8470A	B						
8470	0728	0815	8471A	B		074411	W124.1			0728	0909	8471A	B						
8471	0914	1002	8472A	B		093127	W150.9			0914	1054	8472A	B						
8472	1059	1149	8473A	B		111844	W177.7			1059	1241	8473A	B						
8473	1246	1337	8474A	B		130600	E155.5			1246	1424	8474A	B						
8474	1429	1524	8475A	B		145317	E128.7			1429	1609	8475A	B						
8475	1614	1711	8476A	B		164033	E101.9			1614	1755	8476A	B						
8476	1800	1858	8477A	B		182750	E075.0			1759	1935	8477A	B						
8477	1947	2046	8478A	B		201506	E048.2			1943	2123	8478A	B						
8478	2134	2233	8479A	B		220222	E021.4			2128	2311	8479A	B						
8479						234939	W005.4												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
4 SEPTEMBER 1974

THIR							ESMR						
DATA	11.5	6.7	INT	H	THIR	ASC. AND	DATA	ON	OFF	INT	H		
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	ORBIT	HRMN	HRMN	ORBIT	D		
	HRMN	HRMN	STDN	R	CORR	TIME LONG				STDN	R		
				S	LALO	HRMNSS DEG					S		
DAYTIME THIR							ASC. NODE						
8480	0044	0109	8482R	A		004323 E161.1	8481	0044	0243	8482R	A		
8481	0207	0241	8482R	A		023040 E134.3	8482	0243	0441	8482R	B		
8481	0242	0256	8482R	B			8483	0501	0645	8484A	B		
8482	0355	0440	8482R	B		041756 E107.5	8484	0645	0825	8484A	A		
8483	0542	0631	8484A	B		060513 E080.7	8485	0826	1010	8485A	B		
8484	0729	0818	8484A	A		075229 E053.9	8486	1015	1159	8486A	B		
8485	0917	1005	8485A	B		093945 E027.0	8487	1203	1344	8487A	B		
8486	1104	1153	8486A	B		112702 E000.2	8488	1348	1527	8488A	B		
8487	1251	1340	8487A	B		131418 W026.6	8489	1533	1712	8489A	B		
8488	1438	1526	8488A	B		150135 W053.4	8490	1716	1850	8490A	B		
8489	1626	1710	8489A	B		164851 W080.2	8491	1858	2038	8491A	B		
8490	1813	1850	8490A	B		183608 W107.1	8492	2043	2225	8492A	B		
8491	2000	2036	8491A	B		202324 W133.9							
8491	2043	2049	8492A	B									
8492	2147	2224	8492A	B		221040 W160.7							
8493	2359	0023	8495R	A		235757 E1/2.5							
NIGHTTIME THIR							DESC. NODE						
8480	0109	0207	8482R	A		013655 W032.3	NEMS - SCR - ITPR						
8481	0256	0355	8482R	B		032412 W059.1	0043	0242	8482R	A			
8482	0501	0542	8484A	B		051128 W085.9	0242	0441	8482R	B			
8483	0631	0644	8484A	B		065844 W112.7	0501	0646	8484A	B			
8483	0645	0729	8484A	A			0646	0826	8484A	A			
8484	0827	0917	8485A	B		084601 W139.5	0827	1010	8485A	B			
8485	1015	1104	8486A	B		103317 W166.3	1015	1159	8486A	B			
8486	1203	1251	8487A	B		122034 E166.8	1203	1344	8487A	B			
8487	1348	1438	8488A	B		140750 E140.0	1348	1528	8488A	B			
8488	1533	1626	8489A	B		155506 E113.2	1533	1712	8489A	B			
8489	1716	1813	8490A	B		174223 E086.4	1716	1851	8490A	B			
8490	1902	2000	8491A	B		192939 E059.6	1858	2038	8491A	B			
8491	2049	2147	8492A	B		211656 E032.8	2043	2226	8492A	B			
8492						230412 E005.9							
8493	0023	0122	8459R	A		005128 W020.9							

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
5 SEPTEMBER 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		ON OFF		INT	H				
ORBIT		ON	OFF	ORBIT	D	GRID	DESC.	NODE		ORBIT		HRMN	HRMN	ORBIT	D				
		HRMN	HRMN	STDN	R	CORR	TIME	LUNG				HRMN	HRMN	STDN	R				
					S	LALJ	HRMNSS	DEG							S				
DAYTIME THIR										ASC. NODE									
8494	0122	0156	8459R	A			014513	E145.7		8494	2359	0157	8495R	A					
8494	0157	0211	8495R	B						8495	0157	0354	8495R	B					
8495	0309	0354	8495R	B			033230	E118.9		8496	0416	0600	8497A	B					
8496	0456	0545	8497A	B			051946	E092.0		8497	0602	0740	8498A	A					
8497	0644	0732	8498A	A			070702	E065.2		8498	0743	0918	8498A	B					
8498	0831	0914	8498A	B			085419	E038.4		8499	0927	1114	8499A	B					
8499	1018	1107	8499A	B			104135	E011.6		8500	1120	1300	8500A	B					
8500	1205	1254	8500A	B			122852	W015.2		8501	1305	1443	8501A	B					
8501	1353	1442	8501A	B			141608	W042.1		8502	1448	1627	8502A	B					
8502	1540	1626	8502A	B			160325	W068.9		8503	1633	1811	8503A	B					
8503	1727	1809	8503A	B			175041	W095.7		8504	1817	1955	8504A	B					
8504	1915	1953	8504A	B			193757	W122.5		8505	2000	2140	8505A	B					
8505	2102	2138	8505A	B			212514	W149.3		8506	2145	2328	8506A	B					
8505	2145	2151	8506A	B															
8506	2249	2326	8506A	B			231230	W176.2											
NIGHTTIME THIR										DESC. NODE									
8594	0211	0309	8495R	B			023845	W047.7		NLMS - SCR - ITPR									
*8595	0416	0456	8497A	B			042601	W074.5		2359	0157	8495R	A						
8596	0545	0600	8497A	B			061318	W101.3		0157	0356	8495R	B						
8596	0601	0644	8498A	A						0416	0600	8497A	B						
8597	0732	0741	8498A	A			080034	W128.2		0602	0740	8498A	A						
8597	0743	0831	8498A	B						0744	0919	8498A	B						
8598	0927	1018	8499A	B			094751	W155.0		0927	1114	8499A	B						
8599	1107	1113	8499A	B			113507	E178.2		1120	1300	8500A	B						
8599	1120	1205	8500A	B						1305	1443	8501A	B						
8500	1305	1353	8501A	B			132223	E151.4		1448	1628	8502A	B						
8501	1448	1540	8502A	B			150940	E124.6		1633	1812	8503A	B						
8502	1633	1727	8503A	B			165656	E097.8		1817	1955	8504A	B						
8503	1817	1915	8504A	B			184413	E070.9		1959	2140	8505A	B						
8504	2003	2102	8505A	B			203129	E044.1		2145	2329	8506A	B						
8505	2151	2249	8506A	B			221845	E017.3											
8506							000602	W009.5											
*DIFFERENT 6.7 TIMES																			
8495	0419	0456	8497A	B															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
6 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	DESC. NODE		DESC. NODE		
ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	D	TIME	LONG	TIME	LONG	
			STDN	R	CORR	HRMNSS	DEG						STDN	R					
				S	LALJ									S					
DAYTIME THIR										ASC. NODE									
8507	0059	0125	8509R	A		005947	E157.0			8508	0058	0257	8509R	A					
8508	0224	0256	8509R	A		024703	E130.2			8509	0257	0454	8509R	B					
8508	0257	0312	8509R	B						8510	0518	0655	8510R	B					
8509	0411	0452	8509R	B		043419	E103.4			8511	0705	0840	8511A	B					
8510	0558	0647	8510R	B		062136	E076.6			8512	0844	1025	8512A	B					
8511	0745	0834	8511A	B		080852	E049.8			8513	1031	1210	8513A	B					
8512	0933	1021	8512A	B		095609	E022.9			8514	1214	1357	8514A	B					
8513	1120	1203	8513A	B		114325	W003.9			8515	1402	1542	8515A	B					
8514	1307	1355	8514A	B		133042	W030.7			8516	1547	1725	8516A	B					
8515	1454	1540	8515A	B		151758	W057.5			8517	1730	1912	8518A	B					
8516	1642	1723	8516A	B		170514	W084.3			8518	1913	2056	8518A	A					
8517	1829	1911	8518A	B		185231	W111.2			8519	2059	2244	8519A	B					
8517	1912	1918	8518A	A															
8518	2016	2056	8518A	A		203947	W138.0												
8518	2058	2105	8519A	B															
8519	2204	2242	8519A	B		222704	W164.8												
NIGHTIME THIR										DESC. NODE									
8507	0125	0224	8509R	A		015318	W036.4			NEMS - SCR - ITPR									
8508	0312	0411	8509R	B		034035	W063.2			-----									
8509	0518	0558	8510R	B		052751	W090.0			0059	0258	8509R	A						
8510	0647	0657	8510R	B		071507	W116.8			0757	0454	8509R	B						
8510	0705	0745	8511A	B						0518	0655	8510R	B						
8511	0844	0933	8512A	B		090224	W143.6			0705	0840	8511A	B						
8512	1031	1120	8513A	B		104940	W170.4			0844	1026	8512A	B						
8513	1214	1307	8514A	B		123657	E162.7			1031	1210	8513A	B						
8514	1402	1454	8515A	B		142413	E135.9			1214	1357	8514A	B						
8515	1547	1642	8516A	B		161129	E109.1			1402	1542	8515A	B						
8516	1731	1829	8518A	B		175846	E082.3			1547	1726	8516A	B						
8517	1918	2016	8518A	A		194602	E055.5			1731	1912	8518A	B						
8518	2105	2204	8519A	B		213319	E028.7			1912	2057	8518A	A						
8519						232035	E001.8			2058	2244	8519A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
7 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
ORBIT		ON	OFF	ORBIT	D	GRID	DESC. NODE					ORBIT	D						
		HRMN	HRMN	+	R	CORR	TIME	LONG				+	R						
		HRMN	HRMN	STDN	S	LALD	HRMNSS	DEG				STDN	S						
DAYTIME THIR										ASC. NODE									
8520							001420	E168.4		8522	0158	0355	8523R	A					
8521	0158	0227		8523R	A		020136	E141.6		8523	0356	0556	8523R	2					
8522	0325	0354		8523R	A		034853	E114.8		8524	0619	0754	8524A	B					
8522	0356	0414		8523R	B					8525	0759	0944	8525A	B					
8523	0513	0555		8523R	B		053609	E087.9		8526	0949	1126	8526A	B					
8524	0700	0749		8524A	B		072326	E061.1		8527	1131	1313	8527A	B					
8525	0847	0936		8525A	B		091042	E034.3		8528	1318	1456	8528A	2					
8526	1034	1123		8526A	B		105758	E007.5		8529	1502	1642	8529A	B					
8527	1222	1310		8527A	B		124515	W019.3		8530	1643	1823	8530A	B					
8528	1409	1456		8528A	B		143231	W046.2		8531	1828	2009	8531A	B					
8529	1556	1640		8529A	B		161948	W073.0		8532	2015	2157	8532A	B					
8530	1743	1822		8530A	B		180704	W099.8		8533	2201	2344	8533A	B					
8531	1931	2006		8531A	B		195421	W126.6											
8532	2201	2207		8533A	B		214137	W153.4											
8532	2118	2154		8532A	B														
8533	2349	2354		8536R	A		232853	E179.8											
8533	2305	2343		8533A	B														
NIGHTTIME THIR										DESC. NODE					NEMS - SCR - ITPR				
-----										-----					-----				
8520							010751	W025.0		0158	0356		8523R	A					
8521	0227	0325		8523R	A		025508	W051.8		0356	0556		8523R	B					
8522	0414	0513		8523R	B		044224	W078.6		0619	0754		8524A	B					
8523	0619	0700		8524A	B		062941	W105.4		0759	0944		8525A	B					
8524	0759	0847		8525A	B		081657	W132.3		0949	1127		8526A	B					
8525	0949	1034		8526A	B		100414	W159.1		1132	1313		8527A	B					
8526	1132	1222		8527A	B		115130	E174.1		1318	1457		8528A	B					
8527	1318	1409		8528A	B		133846	E147.3		1503	1642		8529A	B					
8528	1503	1556		8529A	B		152603	E120.5		1647	1823		8530A	B					
8529	1647	1743		8530A	B		171319	E093.6		1828	2009		8531A	B					
8530	1832	1931		8531A	B		190036	E066.8		2014	2156		8532A	B					
8531	2019	2118		8532A	B		204752	E040.0		2202	2344		8533A	B					
8532	2207	2305		8533A	B		223508	E013.2											
8533	2354	0053		8536R	A		002225	W013.6											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
8 SEPTEMBER 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8534	0053	0141	8536R	A		011610	E152.9			8534	2345	0142	8536R	A					
8535	0240	0329	8536R	B		030326	E126.1			8535	0143	0341	8536R	B					
8536						045043	E099.3			8537	0533	0713	8537R	B					
8537	0614	0703	8537R	B		063759	E072.5			8538	0721	0856	8538A	B					
8538	0802	0850	8538A	B		082515	E045.7			8539	0901	1043	8539A	B					
8539	0949	1038	8539A	B		101232	E018.8			8540	1047	1226	8540A	B					
8540	1136	1224	8540A	B		115948	W008.0			8541	1231	1413	8541A	B					
8541	1323	1411	8541A	B		134705	W034.8			8542	1418	1555	8542A	B					
8542	1511	1554	8542A	B		153421	W061.6			8543	1600	1738	8543A	B					
8543	1658	1736	8543A	B		172138	W088.4			8544	1743	1924	8544A	B					
8544	1845	1922	8544A	B		190854	W115.3			8545	1928	2110	8545A	B					
8544	1928	1934	8545A	B						8546	2115	2259	8546A	B					
8545	2032	2108	8545A	B		205610	W142.1												
8545	2116	2121	8546A	B															
8546	2220	2256	8546A	B		224327	W168.9												
NIGHTTIME THIR										DESC. NODE									
8534	0143	0240	8536R	B		020941	W040.5			NEMS - SCR - ITPR									
8535	0329	0338	8536R	B		035658	W067.3			-----									
8536	0533	0614	8537R	B		054414	W094.1			2344	0142	8536R	A						
8537	0703	0712	8537R	B		073130	W120.9			0143	0342	8536R	B						
8537	0721	0802	8538A	B						0533	0713	8537R	B						
8538	0901	0949	8539A	B		091847	W147.7			0722	0856	8538A	B						
8539	1047	1136	8540A	B		110603	W174.5			0901	1043	8539A	B						
8540	1231	1323	8541A	B		125320	E158.6			1047	1226	8540A	B						
8541	1418	1511	8542A	B		144036	E131.8			1231	1413	8541A	B						
8542	1601	1658	8543A	B		162752	E105.0			1418	1556	8542A	B						
8543	1747	1845	8544A	B		181509	E078.2			1600	1739	8543A	B						
8544	1934	2032	8545A	B		200225	E051.4			1743	1924	8544A	B						
8545	2121	2220	8546A	B		214942	E024.6			1928	2110	8545A	B						
8546						233658	W002.3			2115	2258	8546A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
9 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	ON	OFF	INT	H	THIR	ASC. AND			THIR
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		ORBIT	HRMN	HRMN	ORBIT	D	GRID	DESC. NODE	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG		
DAYTIME THIR										ASC. NODE									
8547	0031	0056	8549R	A		003043	E164.3			8548	0031	0227	8549R	A					
8548	0154	0228	8549R	A		021800	E137.5			8549	0229	0428	8549R	B					
8548	0229	0243	8549R	B						8550	0449	0630	8550R	B					
8549	0342	0424	8549R	B		040516	E110.7			8551	0636	0811	8551A	B					
8550	0529	0618	8550R	B		055232	E083.8			8552	0816	0955	8552A	B					
8551	0716	0805	8551A	B		073949	E057.0			8553	1001	1146	8553A	B					
8552	0903	0952	8552A	B		092705	E030.2			8554	1152	1329	8554A	B					
8553	1051	1139	8553A	B		111422	E003.4			8555	1334	1514	8555A	B					
8554	1238	1327	8554A	B		130138	W023.4			8556	1519	1656	8556A	B					
8555	1425	1513	8555A	B		144854	W050.3			8557	1701	1838	8557A	B					
8556	1612	1653	8556A	B		163611	W07.1			8558	1844	2029	8558A	B					
8557	1800	1837	8557A	B		182327	W103.9			8559	2034	2214	8559A	B					
8558	1947	2027	8558A	B		201044	W130.7			8560	2220	0002	8560A	B					
8559	2134	2213	8559A	B		215800	W157.5												
8560	2322	0001	8560A	B		234517	E175.7												
8560	2359	0010	8563R	A															
NIGHTTIME THIR										DESC. NODE									
8547	0056	0154	8549R	A		012414	W029.1			0031	0227	8549R	A						
8548	0243	0342	8549R	B		031131	W055.9			0229	0428	8549R	B						
8549	0449	0529	8550R	B		045847	W082.7			0449	0630	8550R	B						
8550	0618	0629	8550R	B		064604	W109.6			0636	0812	8551A	B						
8550	0636	0716	8551A	B						0816	0956	8552A	B						
8551	0817	0903	8552A	B		083320	W136.4			1001	1147	8553A	B						
8552	1001	1051	8553A	B		102037	W163.2			1152	1329	8554A	B						
8553	1139	1145	8553A	B		120753	E170.0			1334	1514	8555A	B						
8553	1152	1238	8554A	B						1519	1656	8556A	B						
8554	1334	1425	8555A	B		135509	E143.2			1701	1839	8557A	B						
8555	1519	1612	8556A	B		154226	E116.4			1843	2029	8558A	B						
8556	1701	1800	8557A	B		172942	E089.5			2034	2215	8559A	B						
8557	1848	1947	8558A	B		191659	E062.7			2220	0002	8560A	B						
8558	2036	2134	8559A	B		210415	E035.9												
8559	2223	2322	8560A	B		225131	E009.1												
8560	0010	0109	8563R	A		003848	W017.7												
										NEMS - SCR - ITPR									

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
10 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	DESC.	NODE	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8561	0109	0157	8563R	A		013237	E148.8			8561	2359	0158	8563R	A					
8562	0256	0345	8562R	B		031953	E122.0			8562	0158	0357	8562R	B					
8563	0443	0532	8563R	B		050709	E095.2			8563	0407	0544	8563R	B					
8564	0631	0719	8564A	B		065426	E068.4			8564	0549	0725	8564A	B					
8565	0818	0907	8565A	B		084142	E041.5			8565	0731	0912	8565A	B					
8566	1005	1054	8566A	A		102859	E014.7			8566	0912	1058	8566A	A					
8567	1152	1241	8567A	B		121615	W012.1			8567	1058	1245	8567A	B					
8568	1340	1427	8568A	B		140332	W038.9			8568	1250	1428	8568A	B					
8569	1527	1611	8569A	B		155048	W065.7			8569	1433	1612	8569A	B					
8570	1714	1755	8570A	B		173804	W092.6			8570	1617	1757	8570A	B					
8571	1901	1939	8571A	B		192521	W119.4			8571	1801	1940	8571A	B					
8572	2049	2128	8572A	B		211237	W146.2			8572	1946	2129	8572A	B					
8573	2236	2315	8573A	B		225954	W173.0			8573	2134	2316	8573A	B					
NIGHTTIME THIR										DESC. NODE									
8561	0158	0256	8562R	B		022608	W044.6			022608	W044.6								
8562	0345	0355	8562R	B		041324	W071.4			041324	W071.4								
8562	0406	0443	8563R	B															
8563	0532	0543	8563R	B		060041	W098.2			060041	W098.2								
8563	0549	0631	8564A	B															
8564	0731	0818	8565A	B		074757	W125.0			074757	W125.0								
8565	0912	1005	8566A	A		093514	W151.8			093514	W151.8								
8566	1058	1152	8567A	B		112230	W178.7			112230	W178.7								
8567	1250	1340	8568A	B		130946	E154.5			130946	E154.5								
8568	1433	1527	8569A	B		145703	E127.7			145703	E127.7								
8569	1617	1714	8570A	B		164419	E100.9			164419	E100.9								
8570	1803	1901	8571A	B		183136	E074.1			183136	E074.1								
8571	1950	2049	8572A	B		201852	E047.3			201852	E047.3								
8572	2137	2236	8573A	B		220608	E020.4			220608	E020.4								
8573						235325	W006.4			235325	W006.4								
										NEMS - SCR - ITPR									

										2359	0158		8563R	A					
										0158	0358		8562R	B					
										0407	0544		8563R	B					
										0549	0724		8564A	B					
										0731	0912		8565A	B					
										0912	1058		8566A	A					
										1058	1244		8567A	B					
										1250	1429		8568A	B					
										1434	1612		8569A	B					
										1617	1756		8570A	B					
										1801	1940		8571A	B					
										1946	2129		8572A	B					
										2134	2316		8573A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
11 SEPTEMBER 1974

THIR										ESMR									
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DATA	11.5	+	6.7	INT	H	THIR	ASC. AND			DATA	UN	OFF	INT	H					
ORBIT	ON	OFF		ORBIT	D	GRID	DESC. NODE			ORBIT	HRMN	HRMN	ORBIT	D					
	HRMN	HRMN		+	R	CORR	TIME LONG						+	R					
				STDN	S	LALJ	HRMNSS DEG						STDN	S					
DAYTIME THIR										ASC. NODE									
8574							004710 E160.2			8576	0229	0421	8577R	A					
8575	0229	0259		8577R	A		023427 E133.4			8577	0427	0624	8577R	B					
8576	0358	0425		8577R	A		042143 E106.5			8578	0651	0830	8578A	B					
8576	0427	0446		8577R	B					8579	0835	1011	8579A	B					
8577	0545	0624		8577R	B		060859 E079.7			8580	1017	1200	8580A	B					
8578	0732	0821		8578A	B		075616 E052.9			8581	1205	1344	8581A	B					
8579	0920	1008		8579A	B		094332 E026.1			8582	1350	1528	8582A	B					
8580	1107	1156		8580A	B		113049 W000.7			8583	1533	1710	8583A	B					
8581	1254	1342		8581A	B		131805 W027.6			8584	1716	1854	8584A	B					
8582	1441	1527		8582A	B		150522 W054.4			8585	1859	2042	8585A	B					
8583	1629	1709		8583A	B		165238 W081.2			8586	2047	2230	8586A	B					
8584	1816	1854		8584A	B		183954 W108.0												
8584	1900	1905		8585A	B														
8585	2003	2040		8585A	B		202711 W134.8												
8586	2150	2229		8586A	B		221427 W161.7												
NIGHTTIME THIR										DESC. NODE									
8574							014041 W033.2												
8575	0259	0358		8577R	A		032758 W060.0												
8576	0446	0545		8577R	B		051514 W086.8												
8577	0651	0732		8578A	B		070231 W113.7												
8578	0821	0829		8578A	B		084947 W140.5												
8578	0835	0920		8579A	B														
8579	1017	1107		8580A	B		103703 W167.3												
8580	1205	1254		8581A	B		122420 E165.9												
8581	1350	1441		8582A	B		141136 E139.1												
8582	1533	1629		8583A	B		155853 E112.2												
8583	1717	1816		8584A	B		174609 E085.4												
8584	1905	2003		8585A	B		193326 E058.6												
8585	2052	2150		8586A	B		212042 E031.8												
8586							230758 E005.0												
										NEMS - SCR - ITPR									

										0228	0422		8577R	A					
										0427	0626		8577R	B					
										0651	0831		8578A	B					
										0835	1012		8579A	B					
										1017	1200		8580A	B					
										1205	1344		8581A	B					
										1350	1528		8582A	B					
										1533	1711		8583A	B					
										1716	1854		8584A	B					
										1859	2042		8585A	B					
										2047	2230		8586A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
12 SEPTEMBER 1974

THIR							ESMR						
DATA	11.5	6.7	INT	H	THIR	ASC. AND	DATA	ON	OFF	INT	H		
ORBIT	ON	OFF	ORBIT	D	GRID	DESC. NODE	ORBIT	HRMN	HRMN	ORBIT	D		
	HRMN	HRMN	STDN	R	CORR	TIME LONG				STDN	S		
				S	LALJ	HRMNSS DEG							
DAYTIME THIR							ASC. NODE						
8587							000144 E171.5			8589	0145	0344	8590R A
8588	0146	0214	8590R	A			014900 E144.7			8590	0344	0544	8590R B
8589	0312	0342	8590R	A			033617 E117.9			8591	0606	0742	8591A B
8589	0344	0401	8590R	B						8592	0746	0929	8592A B
8590	0459	0542	8590R	B			052333 E091.1			8593	0934	1110	8593A B
8591	0647	0735	8591A	B			071049 E064.3			8594	1116	1303	8594A B
8592	0834	0923	8592A	B			085806 E037.4			8595	1318	1444	8595A B
8593	1021	1110	8593A	B			104522 E010.6			8596	1450	1625	8596A B
8594	1209	1257	8594A	B			123239 W016.2			8597	1635	1815	8597A B
8595	1356	1443	8595A	B			141955 W043.0			8598	1820	2000	8598A B
8596	1543	1628	8596A	B			160712 W069.8			8600	2133	2331	8600A B
8597	1730	1814	8597A	B			175428 W096.7						
8598	1918	1958	8598A	B			194144 W123.5						
8599	2132	2154	8600A	B			212901 W150.3						
8600	2252	2330	8600A	B			231617 W177.1						
NIGHTTIME THIR							DESC. NODE						
8587							005515 W021.9			NEMS - SCR - ITPR			
8588	0214	0312	8590R	A			024231 W048.7			0146	0344	8590R	A
8589	0401	0459	8590R	B			042948 W075.5			0344	0543	8590R	B
8590	0606	0647	8591A	B			061704 W102.3			0606	0742	8591A	B
8591	0747	0834	8592A	B			080420 W129.1			0746	0929	8592A	B
8592	0934	1021	8593A	B			095137 W155.9			0934	1111	8593A	B
8593	1116	1209	8594A	B			113853 E177.2			1116	1303	8594A	B
8594	1308	1356	8595A	B			132610 E150.4			1308	1444	8595A	B
8595	1450	1543	8596A	B			151326 E123.6			1450	1626	8596A	B
8596	1635	1730	8597A	B			170043 E096.8			1635	1816	8597A	B
8597	1820	1918	8598A	B			184759 E070.0			1820	2000	8598A	B
8598							203515 E043.2			2132	2332	8600A	B
8599	2154	2252	8600A	B			222232 E016.3						
8600							000948 W010.5						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
13 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		ORBIT	D	THIR	DESC. NODE		ORBIT	D	THIR	DESC. NODE		ORBIT	D
	ON	OFF	ORBIT	R	GRID	TIME	LONG				TIME	DEG				TIME	DEG		
ORBIT	HRMN	HRMN	STDN	S	LALD	HRMNSS	DEG						ORBIT			HRMN	HRMN	STDN	S
DAYTIME THIR										ASC. NODE									
8601	0102	0128	8603R	A		010334	E156.1			8602	0103	0300	8603R	A					
8602	0227	0300	8603R	A		025050	E129.3			8603	0302	0450	8603R	B					
8602	0301	0315	8603R	B						8604	0520	0702	8604R	B					
8603	0414	0459	8603R	B		043807	E102.4			8605	0708	0843	8605A	B					
8604	0601	0650	8604R	B		062523	E075.6			8606	0848	1033	8606A	B					
8605	0748	0837	8605A	B		081239	E048.8			8607	1038	1214	8607A	B					
8606	0936	1024	8606A	B		095956	E022.0			8608	1219	1400	8608A	B					
8607	1123	1212	8607A	B		114712	W004.8			8609	1406	1546	8609A	B					
8608	1310	1359	8608A	B		133429	W031.7			8610	1551	1732	8610A	B					
8609	1458	1543	8609A	B		152145	W058.5			8611	1737	1915	8611A	B					
8610	1645	1730	8610A	B		170902	W085.3			8612	1920	2057	8612A	B					
8611	1832	1913	8611A	B		185618	W112.1			8613	2102	2245	8613A	B					
8612	2019	2055	8612A	B		204334	W138.9												
8612	2102	2108	8613A	B															
8613	2207	2243	8613A	B		223051	W165.8												
NIGHTTIME THIR										DESC. NODE									
8601	0128	0227	8603R	A		015705	W037.3												
8602	0315	0414	8603R	B		034421	W064.1												
8603	0520	0601	8604R	B		053138	W091.0												
8604	0650	0701	8604R	B		071854	W117.8												
8604	0708	0748	8605A	B															
8605	0848	0936	8606A	B		090610	W144.6												
8606	1024	1032	8606A	B		105327	W171.4												
8606	1039	1123	8607A	B															
8607	1219	1310	8608A	B		124043	E161.8												
8608	1406	1458	8609A	B		142800	E135.0												
8609	1551	1645	8610A	B		161516	E108.1												
*8610	1754	1832	8611A	B		180232	E081.3												
8611	1921	2019	8612A	B		194949	E054.5												
8612	2108	2207	8613A	B		213705	E027.7												
8613						232422	E000.9												
*DIFFERENT 6.7 TIMES										NEMS - SCR - ITPR									
8610	1737	1832	8611A	B															

						0103	0301	8603R	A										
						0301	0451	8603R	B										
						0520	0703	8604R	B										
						0708	0843	8605A	B										
						0848	1034	8606A	B										
						1038	1214	8607A	B										
						1219	1401	8608A	B										
						1406	1546	8609A	B										
						1551	1732	8610A	B										
						1737	1915	8611A	B										
						1920	2057	8612A	B										
						2102	2246	8613A	B										

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
14 SEPTEMBER 1974

THIR										ESMR									
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		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG		DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE			
ORBIT	HRMN	HRMN	STDN	S	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	CORR	HRMNSS			
DAYTIME THIR										ASC. NODE									
8614						001807	E167.4			8616	0202	0359	8617R	A					
8615	0201	0230	8617R	A		020524	E140.6			8617	0400	0556	8617R	B					
8616	0328	0359	8617R	A		035240	E113.8			8618	0622	0757	8618A	B					
8616	0400	0417	8617R	B						8619	0802	0944	8619A	B					
8617	0516	0558	8617R	B		053957	E087.0			8620	0949	1128	8620A	B					
8618	0703	0752	8618A	B		072713	E060.2			8621	1133	1315	8621A	B					
8619	0850	0939	8619A	B		091429	E033.3			8622	1321	1501	8622A	B					
8620	1037	1125	8620A	B		110146	E006.5			8623	1506	1645	8623A	B					
8621	1225	1313	8621A	B		124902	W020.3			8624	1650	1827	8624A	B					
8622	1412	1500	8622A	B		143619	W047.1			8625	1833	2010	8625A	B					
8623	1559	1644	8623A	B		162335	W073.9			8626	2020	2202	8626A	B					
8624	1747	1827	8624A	B		181052	W100.8			8627	2208	2348	8627A	B					
8625	1934	2009	8625A	B		195808	W127.6												
8626	2121	2201	8626A	B		214524	W154.4												
8627	2308	2347	8627A	B		233241	E178.8												
NIGHTTIME THIR										DESC. NODE									
-----										NEMS - SCR - ITPR									
8614						011138	W026.0			0202	0359	8617R	A						
8615	0230	0328	8617R	A		025855	W052.8			0400	0559	8617R	B						
8616	0417	0516	8617R	B		044611	W079.6			0622	0757	8618A	B						
8617	0622	0703	8618A	B		063327	W106.4			0802	0944	8619A	B						
8618	0802	0850	8619A	B		082044	W133.2			0949	1128	8620A	B						
8619	0949	1037	8620A	B		100800	W160.1			1133	1316	8621A	B						
8620	1133	1225	8621A	B		115517	E173.1			1322	1502	8622A	B						
8621	1321	1412	8622A	B		134233	E146.3			1507	1645	8623A	B						
8622	1507	1559	8623A	B		152950	E119.5			1650	1827	8624A	B						
8623	1650	1747	8624A	B		171706	E092.7			1833	2015	8625A	B						
8624	1835	1934	8625A	B		190422	E065.9			2020	2202	8626A	2						
8625	2022	2121	8626A	B		205139	E039.0			2208	2348	8627A	B						
8626	2210	2308	8627A	B		223855	E012.2												
8627						002612	W014.6												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
15 SEPTEMBER 1974

THIR						ESMR							
-----						-----							
		11.5 + 6.7		INT	H	THIR	ASC. AND				INT	H	
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LONG			ORBIT	D	
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				STDN	R	
				S	LALO							S	
DAYTIME THIR						ASC. NODE							
8628	0119	0144	8630R	A		011956	E152.0		8629	0118	0317	8630R	A
8629	0243	0316	8630R	A		030713	E125.2		8630	0317	0516	8630R	B
8629	0318	0332	8630R	B					8631	0537	0713	8631A	B
8630	0430	0515	8630R	B		045429	E098.3		8632	0717	0859	8632A	B
8631	0617	0706	8631A	B		064145	E071.5		8633	0904	1050	8633A	B
8632	0805	0853	8632A	B		082902	E044.7		8634	1055	1232	8634A	B
8633	0952	1041	8633A	B		101618	E017.9		8635	1236	1416	8635A	B
8634	1139	1228	8634A	B		120335	W008.9		8636	1421	1601	8636A	B
8635	1326	1415	8635A	B		135051	W035.8		8637	1606	1745	8637A	B
8636	1514	1559	8636A	B		153808	W062.6		8638	1750	1926	8638A	B
8637	1701	1743	8637A	B		172524	W089.4		8639	1931	2116	8639A	B
8638	1848	1924	8638A	B		191240	W116.2		8640	2122	2305	8640A	B
8638	1931	1937	8639A	B									
8639	2035	2115	8639A	B		205957	W143.0						
8640	2223	2303	8640A	B		224713	W169.9						
NIGHTTIME THIR						DESC. NODE						NEMS - SCR - ITPR	

8628	0144	0243	8630R	A		021327	W041.4		0119	0317	8630R	A	
8629	0332	0430	8630R	B		040043	W068.2		0317	0516	8630R	B	
8630	0537	0617	8631A	B		054800	W095.0		0537	0713	8631A	B	
8631	0706	0711	8631A	B		073516	W121.9		0718	0859	8632A	B	
8631	0718	0805	8632A	B					0904	1050	8633A	B	
8632	0904	0952	8633A	B		092233	W148.7		1054	1231	8634A	B	
8633	1041	1048	8633A	B		110949	W175.5		1236	1417	8635A	B	
8633	1055	1139	8634A	B					1421	1601	8636A	B	
8634	1236	1326	8635A	B		125706	E157.7		1606	1745	8637A	B	
8635	1421	1514	8636A	B		144422	E130.9		1750	1926	8638A	B	
8636	1606	1701	8637A	B		163138	E104.1		1931	2117	8639A	B	
8637	1750	1848	8638A	B		181855	E077.2		2122	2305	8640A	B	
8638	1937	2035	8639A	B		200611	E050.4						
8639	2124	2223	8640A	B		215328	E023.6						
8640						234044	W003.2						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
16 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8641	0034	0059	8643R	A		003430	E163.3			8642	0035	0233	8643R	A					
8642	0157	0232	8643R	A		022146	E136.5			8643	0234	0432	8643R	B					
8642	0233	0246	8643R	B						8644	0452	0632	8644R	B					
8643	0345	0431	8643R	B		040903	E109.7			8645	0639	0814	8645A	B					
8644	0532	0620	8644R	B		055619	E082.9			8646	0819	0959	8646A	B					
8645	0719	0808	8645A	B		074335	E056.1			8647	1004	1145	8647A	B					
8646	0906	0955	8646A	B		093052	E029.2			8648	1149	1332	8648A	B					
8647	1054	1142	8647A	B		111808	E002.4			8649	1337	1516	8649A	B					
8648	1241	1330	8648A	B		130525	W024.4			8650	1520	1700	8650A	B					
8649	1428	1514	8649A	B		145241	W051.2			8651	1706	1843	8651A	B					
8650	1615	1659	8650A	B		163957	W078.0			8652	1847	2031	8652A	B					
8651	1803	1841	8651A	B		182714	W104.9			8653	2036	2222	8653A	B					
8652	1950	2026	8652A	B		201430	W131.7												
8653	2137	2220	8653A	B		220147	W158.5												
8654	2351	0013	8656R	A		234903	E174.7												
NIGHTTIME THIR										DESC. NODE									
8641	0059	0157	8643R	A		012800	W030.1			NEMS - SCR - ITPR									
8642	0246	0345	8643R	B		031517	W056.9			-----									
8643	0452	0532	8644R	B		050233	W083.7			0035	0233	8643R	A						
8644	0620	0632	8644R	B		064950	W110.5			0233	0432	8643R	B						
8644	0639	0719	8645A	B						0452	0632	8644R	B						
8645	0819	0906	8646A	B		083706	W137.3			0639	0815	8645A	B						
8646	1005	1054	8647A	B		102423	W164.1			0819	1000	8646A	B						
8647	1149	1241	8648A	B		121139	E169.0			1004	1144	8647A	B						
8648	1337	1428	8649A	B		135855	E142.2			1149	1332	8648A	B						
8649	1520	1615	8650A	B		154612	E115.4			1337	1516	8649A	B						
8650	1706	1803	8651A	B		173328	E088.6			1520	1701	8650A	B						
8651	1851	1950	8652A	B		192045	E061.8			1706	1843	8651A	B						
8652	2039	2137	8653A	B		210801	E035.0			1847	2031	8652A	B						
8653						225517	E008.1			2036	2222	8653A	B						
8654	0013	0112	8656R	A		004234	W018.7												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
17 SEPTEMBER 1974

THIR							ESMR						
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND	DATA	ON OFF		INT	H		
	ON	OFF	ORBIT	D	GRID	DESC. NODE		HRMN	HRMN	ORBIT	D		
ORBIT	HRMN	HRMN	STDN	S	LALJ	HRMNSS DEG	ORBIT	HRMN	HRMN	STDN	S		
DAYTIME THIR							ASC. NODE						
8655	0112	0148	8656R	A		013620 E147.9	8655	2350	0149	8656R	A		
8655	0149	0200	8656R	B			8656	0149	0348	8656R	B		
8656	0259	0347	8656R	B		032336 E121.1	8657	0408	0548	8657R	B		
8657	0446	0535	8657R	B		051052 E094.2	8658	0554	0730	8658A	B		
8658	0634	0722	8658A	B		065809 E067.4	8659	0735	0916	8659A	B		
8659	0821	0909	8659A	B		084525 E040.6	8660	0922	1101	8660A	B		
8660	1008	1057	8660A	B		103242 E013.8	8661	1106	1247	8661A	B		
8661	1155	1244	8661A	B		121958 W013.0	8662	1253	1432	8662A	B		
8662	1343	1431	8662A	B		140715 W039.9	8663	1438	1616	8663A	B		
8663	1530	1615	8663A	B		155431 W066.7	8664	1622	1800	8664A	B		
8664	1717	1758	8664A	B		174147 W093.5	8665	1805	1944	8665A	B		
8665	1904	1942	8665A	B		192904 W120.3	8666	1949	2134	8666A	B		
8666	2052	2131	8666A	B		211620 W147.1							
8667						230337 W174.0							
NIGHTTIME THIR							DESC. NODE						
8655	0200	0259	8656R	B		022950 W045.5	NEMS - SCR - ITPR						
8656	0408	0446	8657R	B		041707 W072.3	2351	0149	8656R	A			
8657	0535	0547	8657R	B		060423 W099.1	0149	0348	8656R	B			
8657	0554	0634	8658A	B			0408	0549	8657R	B			
8658	0722	0728	8658A	B		075140 W126.0	0554	0730	8658A	B			
8658	0735	0821	8659A	B			0735	0917	8659A	B			
8659	0909	0915	8659A	B		093856 W152.8	0922	1101	8660A	B			
8659	0922	1008	8660A	B			1105	1247	8661A	B			
8660	1106	1155	8661A	B		112612 W179.6	1255	1433	8662A	B			
8661	1253	1343	8662A	B		131329 E153.6	1438	1617	8663A	B			
8662	1440	1530	8663A	B		150045 E126.8	1622	1800	8664A	B			
8663	1622	1717	8664A	B		164802 E099.9	1805	1944	8665A	B			
8664	1806	1904	8665A	B		183518 E073.1	1949	2134	8666A	B			
8665	1953	2052	8666A	B		202234 E046.3							
8666						220951 E019.5							
8667						235707 W007.3							

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
18 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND							INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D				
ORBIT	HRMN	HRMN		STDN	R	CORR	TIME	LONG		ORBIT	HRMN	HRMN		STDN	R				
					S	LALO	HRMNSS	DEG							S				
DAYTIME THIR										ASC. NODE									
8668	0050	0115		8670R	A		005053	E159.2		8669	0050	0248		8670R	A				
8669	0213	0247		8670R	A		023809	E132.4		8670	0249	0448		8670R	B				
8669	0249	0302		8670R	B					8671	0508	0652		8671R	B				
8670	0401	0447		8670R	B		042526	E105.6		8672	0657	0833		8672A	B				
8671	0548	0637		8671R	B		061242	E078.8		8673	0838	1015		8673A	B				
8672	0735	0824		8672A	B		075959	E052.0		8674	1020	1200		8674A	B				
8673	0923	1011		8673A	B		094715	E025.1		8675	1205	1348		8675A	B				
8674	1110	1158		8674A	B		113432	W001.7		8676	1353	1535		8676A	B				
8675	1257	1346		8675A	B		132148	W028.5		8677	1540	1715		8677A	B				
8676	1444	1533		8676A	B		150904	W055.3		8678	1721	1859		8678A	B				
8677	1632	1714		8677A	B		165621	W082.1		8679	1905	2050		8679A	B				
8678	1819	1857		8678A	B		184337	W109.0		8680	2055	2236		8680A	B				
8679	2006	2049		8679A	B		203054	W135.8											
8680	2153	2234		8680A	B		221810	W162.6											
NIGHTTIME THIR										DESC. NODE									
8668	0115	0213		8670R	A		014424	W034.2		NEMS - SCR - ITPR									
8669	0302	0401		8670R	B		033140	W061.0		0051	0249		8670R	A					
8670	0508	0548		8671R	B		051856	W087.8		0249	0448		8670R	B					
8671	0637	0651		8671R	B		070613	W114.6		0508	0652		8671R	B					
8671	0657	0735		8672A	B					0658	0833		8672A	B					
8672	0838	0923		8673A	B		085329	W141.4		0838	1016		8673A	B					
8673	1020	1110		8674A	B		104046	W168.2		1020	1201		8674A	B					
8674	1206	1257		8675A	B		122802	E164.9		1206	1348		8675A	B					
8675	1353	1444		8676A	B		141519	E138.1		1354	1535		8676A	B					
8676	1540	1632		8677A	B		160235	E111.3		1540	1716		8677A	B					
8677	1721	1819		8678A	B		174951	E084.5		1720	1859		8678A	B					
8678	1907	2006		8679A	B		193708	E057.7		1905	2050		8679A	B					
8679	2055	2153		8680A	B		212424	E030.9		2056	2236		8680A	B					
8680							231141	E004.0											

NEMS - SCR - ITPR

DATA	ON	OFF	INT	H
ORBIT	HRMN	HRMN	STDN	S
0051	0249	8670R	A	
0249	0448	8670R	B	
0508	0652	8671R	B	
0658	0833	8672A	B	
0838	1016	8673A	B	
1020	1201	8674A	B	
1206	1348	8675A	B	
1354	1535	8676A	B	
1540	1716	8677A	B	
1720	1859	8678A	B	
1905	2050	8679A	B	
2056	2236	8680A	B	

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
19 SEPTEMBER 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND	DESC. NODE		DATA		ON OFF		INT	H	THIR	ASC. AND	DESC. NODE	
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	TIME	LONG	DEG	ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	TIME	LONG	DEG
ORBIT	HRMN	HRMN	STDN	S	LALD	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	S	LALD	HRMNSS	DEG		
DAYTIME THIR										ASC. NODE									
8681	0007	0029	8683R	A		000526	E170.6			8682	0007	0205	8683R	A		000526	E170.6		
8682	0128	0203	8683R	A		015243	E143.8			8683	0205	0402	8683R	B		015243	E143.8		
8682	0205	0217	8683R	B		033959	E117.0			8684	0430	0602	8684R	B		033959	E117.0		
8683	0315	0403	8683R	B		052716	E090.1			8685	0609	0744	8685A	B		052716	E090.1		
8684	0502	0551	8684R	B		071432	E063.3			8686	0748	0930	8686A	B		071432	E063.3		
8685	0650	0738	8685A	B		090149	E036.5			8687	0936	1122	8687A	B		090149	E036.5		
8686	0837	0926	8686A	B		104905	E009.7			8688	1128	1302	8688A	B		104905	E009.7		
8687	1024	1113	8687A	B		123621	W017.1			8689	1308	1447	8689A	B		123621	W017.1		
8688	1212	1300	8688A	B		142338	W044.0			8690	1452	1630	8690A	B		142338	W044.0		
8689	1359	1445	8689A	B		161054	W070.8			8691	1635	1815	8691A	B		161054	W070.8		
8690	1546	1629	8690A	B		175811	W097.6			8692	1820	2001	8692A	B		175811	W097.6		
8691	1733	1813	8691A	B		194527	W124.4			8693	2007	2151	8693A	B		194527	W124.4		
8692	1921	2001	8692A	B		213243	W151.2			8694	2156	2336	8694A	B		213243	W151.2		
8693	2108	2150	8693A	B		232000	W178.0												
8694	2255	2334	8694A	B															
8694	2336	2344	8697R	A															
NIGHTTIME THIR										DESC. NODE									
8681	0029	0128	8683R	A		005857	W022.8			0007	0205	8683R	A			005857	W022.8		
8682	0217	0315	8683R	B		024613	W049.6			0205	0402	8683R	B			024613	W049.6		
8683	0430	0502	8684R	B		043330	W076.4			0430	0604	8684R	B			043330	W076.4		
8684	0551	0602	8684R	B		062046	W103.3			0609	0744	8685A	B			062046	W103.3		
8684	0609	0650	8685A	B		080803	W130.1			0748	0931	8686A	B			080803	W130.1		
8685	0749	0837	8686A	B		095519	W156.9			0936	1123	8687A	B			095519	W156.9		
8686	0936	1024	8687A	B		114236	E176.3			1127	1303	8688A	B			114236	E176.3		
8687	1113	1121	8687A	B		132952	E149.5			1308	1447	8689A	B			132952	E149.5		
8687	1128	1212	8688A	B		151708	E122.7			1552	1630	8690A	B			151708	E122.7		
8688	1307	1359	8689A	B		170425	E095.8			1635	1815	8691A	B			170425	E095.8		
8689	1452	1546	8690A	B		185141	E069.0			1820	2002	8692A	B			185141	E069.0		
8690	1635	1733	8691A	B		203858	E042.2			2007	2152	8693A	B			203858	E042.2		
8691	1822	1921	8692A	B		222614	E015.4			2156	2336	8694A	B			222614	E015.4		
8692	2009	2108	8693A	B		001330	W011.4									001330	W011.4		
8693	2156	2255	8694A	B															
8694	2344	0042	8697R	A															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
20 SEPTEMBER 1974

THIR										ESMR									
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DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	DESC.	NODE	
	HRMN	HRMN	STDN	R	CORR	HRMNS	DEG				HRMN	HRMN	STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8695	0042	0131	8697R	A		010716	E155.1			8695	2337	0135	8697R	A					
8696	0230	0318	8696R	B		025433	E128.3			8696	0135	0335	8696R	B					
8697	0417	0506	8697R	B		044149	E101.5			8697	0341	0518	8697R	B					
8698	0604	0653	8698R	B		062906	E074.7			8698	0523	0706	8698R	B					
8699	0751	0840	8699A	B		081622	E047.9			8699	0712	0849	8699A	B					
8700	0939	1027	8700A	B		100338	E021.0			8700	0854	1032	8700A	B					
8701	1126	1215	8701A	B		115055	W005.8			8701	1037	1216	8701A	B					
8702	1313	1402	8702A	B		133811	W032.6			8702	1222	1404	8702A	B					
8703	1500	1545	8703A	B		152528	W059.4			8703	1409	1547	8703A	B					
8704	1648	1731	8704A	B		171244	W086.2			8704	1552	1732	8704A	B					
8705	1835	1911	8705A	B		190000	W113.1			8705	1737	1903	8705A	B					
8706	2022	2107	8706A	B		204717	W139.9			8706	1921	2108	8706A	B					
8707	2210	2250	8707A	B		223433	W166.7			8707	2114	2248	8707A	B					
NIGHTTIME THIR										DESC. NODE									
8695	0135	0230	8696R	B		020047	W038.3			NEMS - SCR - ITPR									
8696	0318	0333	8696R	B		034803	W065.1			-----									
8696	0342	0417	8697R	B						2336	0135	8697R	A						
8697	0506	0517	8697R	B		053520	W091.9			0135	0334	8696R	B						
8697	0523	0604	8698R	B						0341	0518	8697R	B						
8698	0653	0705	8698R	B		072236	W118.7			0523	0706	8698R	B						
8698	0712	0751	8699A	B						0712	0809	8699A	B						
8699	0840	0847	8699A	B		090953	W145.5			0854	1032	8700A	B						
8699	0854	0939	8700A	B						1037	1217	8701A	B						
8700	1037	1126	8701A	B		105709	W172.3			1222	1404	8702A	B						
8701	1222	1313	8702A	B		124425	E160.8			1409	1547	8703A	B						
8702	1409	1500	8703A	B		143142	E134.0			1552	1732	8704A	B						
8703	1552	1648	8704A	B		161858	E107.2			1737	1904	8705A	B						
8704	1737	1835	8705A	B		180615	E080.4			1922	2108	8706A	B						
8705	1924	2022	8706A	B		195331	E053.6			2113	2248	8707A	B						
8706	2113	2210	8707A	B		214047	E026.7												
8707						232804	W000.1												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
21 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					ON	OFF	INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D	DATA	ON	OFF	
ORBIT	HRMN	HRMN	STDN	S	LALJ	CORR	TIME	LONG	DEG	ORBIT	HRMN	HRMN	STDN	S	R	ORBIT	HRMN	HRMN	STDN
DAYTIME THIR										ASC. NODE									
8708	0022	0045		8710R	A		002150	E166.5		8709	0022	0220		8710R	A				
8709	0144	0220		8710R	A		020906	E139.7		8710	0221	0420		8710R	B				
8709	0221	0233		8710R	B					8711	0440	0623		8711R	B				
8710	0331	0418		8710R	B		035623	E112.9		8712	0629	0802		8712A	B				
8711	0519	0607		8711R	B		054339	E086.0		8713	0807	0949		8713A	B				
8712	0706	0755		8712A	B		073055	E059.2		8714	0954	1137		8714A	B				
8713	0853	0942		8713A	B		091812	E032.4		8715	1143	1321		8715A	B				
8714	1040	1129		8714A	B		110528	E005.6		8716	1326	1505		8716A	B				
8715	1228	1316		8715A	B		125245	W021.3		8717	1509	1649		8717A	B				
8716	1415	1503		8716A	B		144001	W048.1		8718	1655	1830		8718A	B				
8717	1602	1648		8717A	B		162717	W074.9		8719	1837	2019		8719A	B				
8718	1749	1830		8718A	B		181434	W101.7		8720	2025	2158		8720A	B				
8719	1937	2018		8719A	B		200150	W128.5		8721	2210	2353		8721A	B				
8720	2124	2203		8720A	B		214907	W155.3											
8721	2311	2351		8721A	B		233623	E177.8											
8721	2352	0000		8724R	A														
NIGHTTIME THIR										DESC. NODE									
8708	0045	0144		8710R	A		011520	W026.9		NEMS - SCR - ITPR									
8709	0233	0331		8710R	B		030237	W053.7		-----									
8710	0440	0519		8711R	B		044953	W080.5		0023	0220		8710R	A					
8711	0607	0622		8711R	B		063710	W107.4		0221	0420		8710R	B					
8711	0628	0706		8712A	B					0440	0624		8711R	B					
8712	0807	0853		8713A	B		082426	W134.2		0628	0802		8712A	B					
8713	0942	0948		8713A	B		101142	W161.0		0807	0949		8713A	B					
8713	0954	1040		8714A	B					0954	1138		8714A	B					
8714	1129	1136		8714A	B		115859	E172.2		1143	1322		8715A	B					
8714	1143	1228		8715A	B					1326	1505		8716A	B					
8715	1326	1415		8716A	B		134615	E145.4		1510	1650		8717A	B					
8716	1509	1602		8717A	B		153332	E118.6		1655	1830		8718A	B					
8717	1655	1749		8718A	B		172048	E091.7		1836	2019		8719A	B					
8718	1838	1937		8719A	B		190804	E064.9		2024	2158		8720A	B					
8719	2025	2124		8720A	B		205521	E038.1		2210	2353		8721A	B					
8720	2213	2311		8721A	B		224237	E011.3											
8721	0000	0059		8724R	A		002954	W015.5											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
22 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					ON	OFF	INT	H				
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF		ORBIT	D	DATA	ON	OFF	
ORBIT	HRMN	HRMN	STDN	R	CORR	LALO	HRMNSS	DEG		ORBIT	HRMN	HRMN	STDN	R	S	ORBIT	HRMN	HRMN	STDN
DAYTIME THIR										ASC. NODE									
8722	0059	0147	8724R	A			012340	E151.0		8722	2352	0150	8724R	A					
8723	0246	0334	8723R	B			031056	E124.2		8723	0150	0349	8723R	B					
8724	0433	0522	8724R	B			045812	E097.4		8724	0357	0536	8724R	B					
8725	0620	0709	8725A	B			064529	E070.6		8725	0541	0717	8725A	B					
8726	0808	0856	8726A	B			083245	E043.8		8726	0722	0903	8726A	B					
8727	0955	1043	8727A	B			102002	E016.9		8727	0909	1051	8727A	B					
8728	1142	1228	8728A	B			120718	W009.9		8728	1056	1233	8728A	B					
8729	1329	1417	8729A	B			135435	W036.7		8729	1237	1420	8729A	B					
8730	1517	1603	8730A	B			154151	W063.5		8730	1426	1605	8730A	B					
8731	1704	1746	8731A	B			172907	W090.4		8731	1609	1747	8731A	B					
8732	1851	1932	8732A	B			191624	W117.2		8732	1752	1933	8732A	B					
8733	2038	2121	8733A	B			210340	W144.0		8733	1939	2120	8733A	B					
8734	2226	2306	8734A	B			225057	W170.8		8734	2125	2310	8734A	B					
NIGHTTIME THIR										DESC. NODE									
8722	0150	0246	8723R	B			021710	W042.4		NEMS - SCR - ITPR									
8723	0334	0348	8723R	B			040427	W069.2		-----									
8724	0357	0433	8724R	B						2352	0150	8724R	A						
8724	0522	0535	8724R	B			055143	W096.0		0150	0349	8723R	B						
8724	0541	0620	8725A	B						0357	0536	8724R	B						
8725	0709	0715	8725A	B			073859	W122.8		0541	0717	8725A	B						
8725	0721	0808	8726A	B						0721	0904	8726A	B						
8726	0856	0902	8726A	B			092616	W149.6		0909	1051	8727A	B						
8726	0909	0955	8727A	B						1056	1233	8728A	B						
8727	1043	1049	8727A	B			111332	W176.5		1237	1420	8729A	B						
8727	1056	1142	8728A	B						1425	1604	8730A	B						
8728	1237	1329	8729A	B			130049	E156.7		1609	1748	8731A	B						
8729	1425	1517	8730A	B			144805	E129.9		1744	1934	8732A	B						
8730	1609	1704	8731A	B			163521	E103.1		1938	2123	8733A	B						
8731	1753	1851	8732A	B			182238	E076.3		2128	2308	8734A	B						
8732	1940	2038	8733A	B			200954	E049.5											
8733	2128	2226	8734A	B			215711	E022.6											
8734							234427	W004.2											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
23 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT		H					
DATA	ON	OFF	ORBIT		D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT		D				
ORBIT	HRMN	HRMN	STDN		R	CORR	TIME	LUNG		ORBIT	HRMN	HRMN	STDN		R				
				S		LALJ	HRMNSS	DEC						S					
DAYTIME THIR										ASC. NODE									
8735	0039	0102	8737R	A			003813	E162.4		8736	0039	0236	8737R	A					
8736	0200	0236	8737R	A			022529	E135.6		8737	0238	0436	8737R	B					
8736	0237	0249	8737R	B						8738	0455	0637	8738R	B					
8737	0348	0435	8737R	B			041246	E108.7		8739	0643	0817	8739A	B					
8738	0535	0623	8738R	B			060002	E081.9		8740	0823	1008	8740A	B					
8739	0722	0811	8739A	B			074719	E055.1		8741	1013	1149	8741A	B					
8740	0909	0958	8740A	B			093435	E028.3		8742	1154	1334	8742A	B					
8741	1057	1145	8741A	B			112152	E001.5		8743	1340	1520	8743A	B					
8742	1244	1332	8742A	B			130908	W025.4		8744	1525	1703	8744A	B					
8743	1431	1518	8743A	B			145624	W052.2		8745	1708	1845	8745A	B					
8744	1618	1701	8744A	B			164341	W079.0		8746	1850	2035	8746A	B					
8745	1806	1844	8745A	B			183057	W105.8		8747	2040	2221	8747A	B					
8746	1953	2033	8746A	B			201814	W132.6											
8747	2140	2220	8747A	B			220530	W159.4											
8748	2353	0016	8750R	A			235246	E173.7											
NIGHTTIME THIR										DESC. NODE									
8735	0102	0200	8737R	A			013144	W031.0		NEMS - SCR - ITPR									
8736	0249	0348	8737R	B			031900	W057.8		0039	0237	8737R	A						
8737	0456	0535	8738R	B			050616	W084.6		0237	0436	8737R	B						
8738	0623	0636	8738R	B			065333	W111.5		0455	0638	8738R	B						
8738	0643	0722	8739A	B						0643	0818	8739A	B						
8739	0823	0909	8740A	B			084049	W138.3		0823	1008	8740A	B						
8740	0958	1003	8740A	B			102806	W165.1		1013	1149	8741A	B						
8740	1013	1057	8741A	B						1154	1335	8742A	B						
8741	1154	1244	8742A	B			121522	E168.1		1340	1520	8743A	B						
8742	1340	1431	8743A	B			140238	E141.3		1524	1703	8744A	B						
8743	1524	1618	8744A	B			154955	E114.5		1708	1846	8745A	B						
8744	1708	1806	8745A	B			173711	E087.6		1850	2035	8746A	B						
8745	1854	1953	8746A	B			192428	E060.8		2040	2221	8747A	B						
8746	2042	2140	8747A	B			211144	E034.0											
8747							225901	E007.2											
8748	0016	0115	8750R	A			004617	W019.6											

NEMS - SCR - ITPR									

0039	0237	8737R	A						
0237	0436	8737R	B						
0455	0638	8738R	B						
0643	0818	8739A	B						
0823	1008	8740A	B						
1013	1149	8741A	B						
1154	1335	8742A	B						
1340	1520	8743A	B						
1524	1703	8744A	B						
1708	1846	8745A	B						
1850	2035	8746A	B						
2040	2221	8747A	B						

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
24 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	ON OFF		INT	H	THIR	DESC. NODE		DESC. NODE	
ORBIT	ON	OFF	ORBIT	D	GRID	TIME	LONG	TIME	LONG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	LONG
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG		
				S	LALO									S	LALO				
DAYTIME THIR										ASC. NODE									
8749	0115	0151	8750R	A		014003	E146.9			8749	2353	0150	8750R	A					
8749	0152	0203	8750R	B						8750	0152	0339	8750R	B					
8750	0302	0350	8750R	B		032719	E120.1			8751	0412	0552	8751R	B					
8751	0449	0538	8751R	B		051436	E093.3			8752	0558	0733	8752A	B					
8752	0637	0725	8752A	B		070152	E066.5			8753	0738	0918	8753A	B					
8753	0824	0912	8753A	B		084909	E039.7			8754	0925	1106	8754A	B					
8754	1011	1100	8754A	B		103625	E012.8			8755	1113	1234	8755A	B					
8755	1158	1247	8755A	B		122341	W014.0			8756	1257	1434	8756A	B					
8756	1346	1433	8756A	B		141058	W040.8			8757	1440	1620	8757A	B					
8757	1533	1618	8757A	B		155814	W067.6			8758	1624	1806	8758A	B					
8758	1720	1805	8758A	B		174531	W094.5			8759	1811	1948	8759A	B					
8759	1907	1944	8759A	B		193247	W121.3			8760	1953	2140	8760A	B					
8760	2055	2136	8760A	B		212003	W148.1			8761	2145	2325	8761A	B					
8761	2242	2323	8761A	B		230720	W174.9												
NIGHTTIME THIR										DESC. NODE									
8749	0203	0302	8750R	B		023333	W046.5			NEMS - SCR - ITPR									
8750	0412	0449	8751R	B		042050	W073.3			-----									
8751	0538	0551	8751R	B		060806	W100.1			2354	0151	8750R	A						
8751	0558	0637	8752A	B						0152	0343	8750R	B						
8752	0725	0732	8752A	B		075523	W126.9			0412	0553	8751R	B						
8752	0738	0824	8753A	B						0558	0734	8752A	B						
8753	0912	0917	8753A	B		094239	W153.7			0738	0919	8753A	B						
8753	0925	1011	8754A	B						0925	1106	8754A	B						
8754	1113	1158	8755A	B		112955	E179.5			1113	1252	8755A	B						
8755	1257	1346	8756A	B		131712	E152.6			1257	1438	8756A	B						
8756	1440	1533	8757A	B		150428	E125.8			1440	1620	8757A	B						
8757	1624	1720	8758A	B		165145	E099.0			1624	1806	8758A	B						
8758	1811	1907	8759A	B		183901	E072.2			1811	1948	8759A	B						
8759	1956	2055	8760A	B		202618	E045.4			1953	2140	8760A	B						
8760	2146	2242	8761A	B		221334	E018.5			2146	2325	8761A	B						
8761						000050	W008.3												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
25 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
		11.5 + 6.7		INT	H	THIR	ASC. AND					INT	H						
DATA	ON	OFF		ORBIT	D	GRID	DESC.	NODE		DATA	ON	OFF	ORBIT	D					
ORBIT	HRMN	HRMN	STDN	R	CORR	TIME	LUNG	DEG		ORBIT	HRMN	HRMN	STDN	R	S				
DAYTIME THIR										ASC. NODE									
8762	0054	0118		8764R	A		005436	E158.3		8763	0054	0252		8764R	A				
8763	0216	0250		8764R	A		024153	E131.5		8764	0252	0451		8764R	B				
8763	0252	0305		8764R	B					8765	0512	0654		8765R	B				
8764	0404	0449		8764R	B		042909	E104.6		8766	0659	0832		8766A	B				
8765	0551	0640		8765R	B		061625	E077.8		8767	0837	1024		8767A	B				
8766	0738	0827		8766A	B		080342	E051.0		8768	1030	1208		8768A	B				
8767	0925	1014		8767A	B		095058	E024.2		8769	1213	1350		8769A	B				
8768	1113	1201		8768A	B		113815	W002.6		8770	1355	1535		8770A	B				
8769	1300	1346		8769A	B		132531	W029.5		8771	1540	1720		8771A	B				
8770	1447	1533		8770A	B		151248	W056.3		8772	1726	1900		8772A	B				
8771	1635	1719		8771A	B		170004	W083.1		8773	1907	2050		8773A	B				
8772	1822	1900		8772A	B		184720	W109.9											
8773	2009	2046		8773A	B		203437	W136.7											
8774							222153	W163.5											
NIGHTTIME THIR										DESC. NODE									
8762	0118	0216		8764R	A		014807	W035.1		NEMS - SCR - ITPR									
8763	0305	0404		8764R	B		033523	W061.9		0054	0252		8764R	A					
8764	0512	0551		8765R	B		052240	W088.7		0252	0451		8764R	B					
8765	0640	0653		8765R	B		070956	W115.6		0512	0654		8765R	B					
8765	0659	0738		8766A	B					0659	0832		8766A	B					
8766	0837	0925		8767A	B		085712	W142.4		0837	1025		8767A	B					
8767	1014	1023		8767A	B		104429	W169.2		1030	1208		8768A	B					
8767	1030	1113		8768A	B					1213	1350		8769A	B					
8768	1213	1300		8769A	B		123145	E164.0		1355	1535		8770A	B					
8769	1355	1447		8770A	B		141902	E137.2		1540	1721		8771A	B					
8770	1540	1635		8771A	B		160618	E110.4		1726	1900		8772A	B					
8771	1726	1822		8772A	B		175334	E083.5		1906	2050		8773A	B					
8772	1910	2009		8773A	B		194051	E056.7											
8773							212807	E029.9											
8774							231524	E003.1											

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
26 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA ORBIT	11.5 + 6.7		INT	H	THIR	ASC. AND		TIME	LONG	DATA ORBIT	ON OFF		INT	H	TIME	LONG			
	ON	OFF	ORBIT	D	GRID	DESC.	NODE				HRMN	HRMN	ORBIT	D					
	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	STDN	R					
				S	LALJ									S					
DAYTIME THIR										ASC. NODE									
8775	0010	0032	8777R	A		000910	E169.6			8776	0010	0208	8777R	A					
8776	0131	0207	8777R	A		015626	E142.8			8777	0208	0407	8777R	B					
8776	0208	0219	8777R	B						8778	0422	0610	8778R	B					
8777	0318	0405	8777R	B		034342	E116.0			8779	0616	0749	8779A	B					
8778	0505	0554	8778R	B		053059	E089.2			8780	0754	0937	8780A	B					
8779	0653	0741	8779A	B		071815	E062.4			8781	0942	1118	8781A	B					
8780	0840	0929	8780A	B		090532	E035.5			8782	1123	1307	8782A	B					
8781	1027	1116	8781A	B		105248	E008.7			8783	1312	1448	8783A	B					
8782	1214	1303	8782A	B		124004	W018.1			8784	1454	1636	8784A	B					
8783	1402	1449	8783A	B		142721	W044.9			8785	1641	1818	8785A	B					
8784	1549	1635	8784A	B		161437	W071.7			8786	1824	2004	8786A	B					
8785	1736	1817	8785A	B		180154	W098.6			8787	2010	2155	8787A	B					
8786	1924	2002	8786A	B		194910	W125.4			8788	2202	2339	8788A	B					
8787	2111	2155	8787A	B		213627	W152.2												
8788	2258	2338	8788A	B		232343	W179.0												
8788	2339	2347	8791R	A															
NIGHTTIME THIR										DESC. NODE									
8775	0032	0131	8777R	A		010240	W023.7			NEMS - SCR - ITPR									
8776	0219	0318	8777R	B		024957	W050.6			-----									
8777	0427	0505	8778R	B		043713	W077.4			0010	0208	8777R	A						
8778	0554	0609	8778R	B		062429	W104.2			0208	0407	8777R	B						
8778	0616	0653	8779A	B						0427	0610	8778R	B						
8779	0741	0748	8779A	B		081146	W131.0			0616	0750	8779A	B						
8779	0754	0840	8780A	B						0754	0937	8780A	B						
8780	0929	0935	8780A	B		095902	W157.8			0942	1119	8781A	B						
8780	0941	1027	8781A	B						1124	1307	8782A	B						
8781	1124	1214	8782A	B		114619	E175.4			1312	1449	8783A	B						
8782	1312	1402	8783A	B		133335	E148.5			1456	1636	8784A	B						
*8783	1456	1549	8784A	B		152051	E121.7			1641	1819	8785A	B						
8784	1641	1736	8785A	B		170808	E094.9			1824	2004	8786A	B						
8785	1825	1924	8786A	B		185524	E068.1			2010	2156	8787A	B						
8786	2012	2111	8787A	B		204241	E041.3			2202	2340	8788A	B						
8787	2202	2258	8788A	B		222957	E014.4												
8788	2347	0045	8791R	A		001714	W012.4												
*DIFFERENT 6.7 TIMES																			
8783	1501	1549	8784A	B															

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
27 SEPTEMBER 1974

THIR										ESMR					
11.5 + 6.7		INT	H	THIR	ASC. AND						INT	H			
DATA	ON	OFF	ORBIT	D	GRID	DESC. NODE	TIME	LUNG		DATA	ON	OFF	ORBIT	D	
ORBIT	HRMN	HRMN	STDN	R	CORR	HRMNSS	DEG			ORBIT	HRMN	HRMN	STDN	R	
					LALJ										S
DAYTIME THIR					ASC. NODE										
8789	0045	0132	8719R	A		011059	E154.2			8789	2340	0137	8791R	A	
8790	0233	0321	8790R	B		025816	E127.4			8790	0138	0337	8790R	B	
8791	0420	0508	8791R	B		044532	E100.5			8791	0344	0522	8791R	B	
8792	0607	0656	8792R	B		063249	E073.7			8792	0527	0712	8792R	B	
8793	0754	0843	8794A	B		082005	E046.9			8793	0717	0855	8794A	B	
8794	0942	1030	8794A	A		100721	E020.1			8794	0855	1035	8794A	A	
8795	1129	1215	8795A	B		115438	W006.7			8795	1044	1221	8795A	B	
8796	1316	1405	8796A	B		134154	W033.6			8796	1228	1406	8796A	B	
8797	1503	1550	8797A	B		152911	W060.4			8797	1412	1551	8797A	B	
8798	1651	1736	8798A	B		171627	W087.2			8798	1557	1737	8798A	B	
8799	1838	1915	8799A	B		190344	W114.0			8799	1743	1917	8799A	B	
8800	2025	2103	8800A	B		205100	W140.8			8800	1922	2105	8800A	B	
8801	2213	2254	8801A	B		223816	W167.7			8801	2110	2255	8801A	B	
NIGHTTIME THIR					DESC. NODE					NEMS - SCR - ITPR					
8789	0138	0233	8790R	B		020430	W039.2			2339	0139	8791R	A		
8790	0321	0336	8790R	B		035146	W066.0			0138	0337	8790R	B		
8790	0344	0420	8791R	B						0344	0522	8791R	B		
8791	0508	0520	8791R	B		053903	W092.8			0527	0711	8792R	B		
8791	0527	0607	8792R	B						0716	0855	8794A	B		
8792	0656	0709	8792R	B		072619	W119.7			0855	1036	8794A	A		
8792	0716	0754	8794A	B						1044	1222	8795A	B		
8793	0843	0853	8794A	B		091336	W146.5			1227	1407	8796A	B		
8793	0855	0942	8794A	A						1412	1552	8797A	B		
8794	1044	1129	8795A	B		110052	W173.3			1557	1738	8798A	B		
8795	1227	1316	8796A	B		124808	E159.9			1743	1917	8799A	B		
8796	1412	1503	8797A	B		143525	E133.1			1922	2105	8800A	B		
8797	1557	1651	8798A	B		162241	E106.3			2110	2256	8801A	B		
8798	1743	1838	8799A	B		180958	E079.4								
8799	1927	2025	8800A	B		195714	E052.6								
8800	2114	2213	8801A	B		214430	E025.8								
8801						233147	W001.0								

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
28 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND				DATA			INT	H					
ORBIT	ON	OFF	ORBIT	D	GRID	DESC.	NODE	TIME	LONG	ORBIT	ON	OFF	ORBIT	D	TIME	LONG	TIME	LONG	
	HRMN	HRMN	+ STDN	R	CORR	HRMNSS	DEG				HRMN	HRMN	+ STDN	R					
				S	LALO									S					
DAYTIME THIR										ASC. NODE									
8802	0040	0048	8804R	A		002533	E165.5			8803	0039	0238	8804R	A					
8803	0147	0236	8804R	A		021249	E138.7			8804	0238	0437	8804R	B					
8804	0334	0423	8804R	B		040006	E111.9			8805	0445	0624	8805R	B					
8805	0522	0610	8805R	B		054722	E085.1			8806	0629	0748	8806A	B					
8806	0709	0757	8806A	B		073438	E058.3			8807	0809	0953	8807A	B					
8807	0856	0945	8807A	B		092155	E031.4			8808	0958	1135	8808A	B					
8808	1043	1132	8808A	B		110911	E004.6			8809	1140	1324	8809A	B					
8809	1231	1319	8809A	B		125628	W022.2			8810	1329	1508	8810A	B					
8810	1418	1506	8810A	B		144344	W049.0			8811	1513	1653	8811A	B					
8811	1605	1651	8811A	B		163100	W075.8			8812	1658	1838	8812A	B					
8812	1752	1836	8812A	B		181817	W102.7			8813	1843	2023	8813A	B					
8813	1940	2021	8813A	B		200533	W129.5			8814	2028	2214	8814A	B					
8814	2127	2212	8814A	B		215250	W156.3			8815	2218	2357	8815A	B					
8815	2314	2356	8815A	B		234006	W176.9												
8815	2356	0003	8818R	A															
NIGHTTIME THIR										DESC. NODE									
8802	0048	0147	8804R	A		011903	W027.9												
8803	0238	0334	8804R	B		030620	W054.7												
8804	0423	0436	8804R	B		045336	W081.5												
8804	0445	0522	8805R	B															
8805	0610	0623	8805R	B		064053	W108.3												
8805	0629	0709	8806A	B															
8806	0809	0856	8807A	B		082809	W135.1												
8807	0945	0951	8807A	B		101525	W161.9												
8807	0958	1043	8808A	B															
8808	1141	1231	8809A	B		120242	E171.2												
8809	1329	1418	8810A	B		134958	E144.4												
8810	1513	1605	8811A	B		153715	E117.6												
8811	1658	1752	8812A	B		172431	E090.8												
8812	1842	1940	8813A	B		191147	E064.0												
8813	2029	2127	8814A	B		205904	E037.2												
8814	2219	2314	8815A	B		224620	E010.3												
8815	0003	0102	8818R	A		003337	W016.5												
										NEMS - SCR - ITPR									

										0040	0238		8804R	A					
										0238	0437		8804R	B					
										0445	0624		8805R	B					
										0629	0804		8806A	B					
										0809	0953		8807A	B					
										0958	1135		8808A	B					
										1140	1324		8809A	B					
										1329	1508		8810A	B					
										1513	1653		8811A	B					
										1658	1838		8812A	B					
										1843	2023		8813A	B					
										2028	2214		8814A	B					
										2219	2358		8815A	B					

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
29 SEPTEMBER 1974

THIR										ESMR									
-----										-----									
DATA	11.5 + 6.7		INT	H	THIR	ASC. AND		DESC. NODE		DATA	UN OFF		INT	H	THIR	ASC. AND		DESC. NODE	
ORBIT	ON	OFF	ORBIT	D	GRID	TIME	LONG	TIME	DEG	ORBIT	HRMN	HRMN	ORBIT	D	GRID	TIME	LONG	TIME	DEG
	HRMN	HRMN	STDN	S	CORR	HRMNS					HRMN	HRMN	STDN	S	CORR	HRMNS			
					LALO														
DAYTIME THIR										ASC. NODE									
8816	0102	0150	8818R	A		012725	E150.1			8816	2355	0154	8818R	A					
8817	0249	0337	8817R	B		031442	E123.3			8817	0154	0353	8817R	B					
8818	0436	0525	8818R	B		050158	E096.4			8818	0402	0539	8818R	B					
8819	0623	0712	8819A	B		064914	E069.6			8819	0544	0721	8819A	B					
8820	0811	0859	8820A	B		083631	E042.8			8820	0726	0905	8820A	B					
8821	0958	1046	8821A	B		102347	E016.0			8821	0909	1056	8821A	B					
8822	1145	1234	8822A	B		121104	W010.8			8822	1101	1239	8822A	B					
8823	1332	1421	8823A	B		135820	W037.7			8823	1244	1426	8823A	B					
8824	1520	1606	8824A	B		154536	W064.5			8824	1431	1607	8824A	B					
8825	1707	1748	8825A	B	14	173253	W091.3			8825	1613	1750	8825A	B					
8826	1854	1932	8826A	B		192009	W118.1			8826	1755	1934	8826A	B					
8827	2041	2122	8827A	B		210726	W144.9			8827	1938	2124	8827A	B					
8828	2229	2310	8828A	B		225442	W171.8			8828	2129	2311	8828A	B					
NIGHTTIME THIR										DESC. NODE									
8816	0155	0249	8817R	B		022056	W043.3			NEMS - SCR - ITPR									
8817	0337	0352	8817R	B		040812	W070.1			-----									
8817	0402	0436	8818R	B						2355	0154	8818R	A						
8818	0525	0537	8818R	B		055528	W096.9			0154	0353	8817R	B						
8818	0544	0623	8819A	B						0402	0539	8818R	B						
8819	0712	0720	8819A	B		074245	W123.8			0544	0722	8819A	B						
8819	0726	0811	8820A	B						0726	0905	8820A	B						
8820	0909	0958	8821A	B		093001	W150.6			0910	1056	8821A	B						
8821	1046	1053	8821A	B		111718	W177.4			1101	1239	8822A	B						
8821	1101	1145	8822A	B						1243	1426	8823A	B						
8822	1244	1332	8823A	B		130434	E155.8			1431	1608	8824A	B						
8823	1431	1520	8824A	B		145151	E129.0			1613	1750	8825A	B						
8824	1613	1707	8825A	B	1E	163907	E102.1			1755	1934	8826A	B						
8825	1756	1854	8826A	B		182623	E075.3			1938	2123	8827A	B						
8826	1943	2041	8827A	B		201340	E048.5			2128	2312	8828A	B						
8827	2130	2229	8828A	B		220056	E021.7												
8828						234813	W005.1												

TABLE 2-2
DATA AVAILABILITY ON-OFF TIMES
30 SEPTEMBER 1974

THIR										ESMR									
DATA		11.5 + 6.7		INT	H	THIR	ASC. AND			DATA		UN OFF		INT	H	ASC. AND			
ORBIT	HRMN	HRMN	STDN	ORBIT	D	GRID	TIME	LONG		ORBIT	HRMN	HRMN	STDN	ORBIT	D	TIME	LONG		
					R	CORR	HRMNSS	DEG							R				
					S	LALO									S				
DAYTIME THIR										ASC. NODE									
8829	0054	0105	8831R	A			004159	E161.4		8830	0057	0252	8831R	A					
8830	0203	0251	8831R	A			022915	E134.6		8831	0252	0451	8831R	B					
8831	0351	0439	8831R	B			041631	E107.8		8832	0459	0630	8832R	B					
8832	0538	0626	8832R	B			060348	E081.0		8833	0647	0822	8833A	B					
8833	0725	0814	8833A	B			075104	E054.2		8834	0827	1007	8834A	B					
8834	0912	1001	8834A	B			093821	E027.3		8835	1012	1152	8835A	B					
8835	1100	1148	8835A	B			112537	E000.5		8836	1157	1339	8836A	B					
8836	1247	1335	8836A	B			131254	W026.3		8837	1345	1525	8837A	B					
8837	1434	1523	8837A	B			150010	W053.1		8838	1531	1700	8838A	B					
8838	1621	1709	8838A	B			164726	W079.9		8839	1716	1852	8839A	B					
8839	1809	1850	8839A	B			183443	W106.8		8840	1856	2039	8840A	B					
8840	1956	2038	8840A	B			202159	W133.6		8841	2044	2228	8841A	B					
8841	2143	2226	8841A	B			220916	W160.4											
8842	0011	0019	8842R	A			235632	E172.8											
NIGHTTIME THIR										DESC. NODE									
8829	0105	0203	8831R	A			013529	W032.0		NEMS - SCR - ITPR									
8830	0252	0351	8831R	B			032246	W058.8		0054	0252	8831R	A						
8831	0439	0450	8831R	B			051002	W085.6		0252	0451	8831R	B						
8831	0500	0538	8832R	B						0459	0642	8832R	B						
8832	0626	0640	8832R	B			065718	W112.4		0647	0822	8833A	B						
8832	0647	0725	8833A	B						0827	1007	8834A	B						
8833	0814	0820	8833A	B			084435	W139.2		1012	1152	8835A	B						
8833	0827	0912	8834A	B						1157	1340	8836A	B						
8834	1011	1100	8835A	B			103151	W166.0		1345	1526	8837A	B						
8835	1157	1247	8836A	B			121908	E167.1		1531	1700	8838A	B						
8836	1345	1434	8837A	B			140624	E140.3		1715	1852	8839A	B						
8837	1531	1621	8838A	B			155340	E133.5		1856	2039	8840A	B						
8838	1715	1809	8839A	B			174057	E086.7		2044	2228	8841A	B						
8839	1857	1956	8840A	B			192813	E059.9											
8840	2044	2143	8841A	B			211530	E033.0											
8841							230246	E006.2											
8842	0019	0118	8845R	A			005003	W020.6											

SECTION 3

ELECTRICALLY SCANNING MICROWAVE RADIOMETER DISPLAYS

One ESMR display per day has been selected for presentation in this section. All ESMR coverage times are listed in the Data Availability On-Off Times (Table 2-2). Each display contains the following items:

Nimbus 5 ESMR

This identifies the satellite (Nimbus 5) and the experiment (ESMR).

Date

This identifies the Greenwich day, month, and year the data is recorded.

Data Orbit

This data orbit number identifies only the last data orbit on each display. Usually parts of two data orbits are on the same display, since all data acquired during each satellite interrogation is presented on one 4×5 -inch negative. In general, nighttime data is on the left and daytime data is on the right.

Program

No Program number is identified on these displays. Its intended use was to identify the appropriate table which would list the temperature interval for each gray level in the gray scale. The temperature programs used since launch are listed in Table 3-1.

Gray Scale

A single 11-step gray scale serves to define ESMR brightness temperatures in all three swaths, by the assignment of a different brightness temperature range to each step for each swath. Table 3-1 defines the gray scale table used on all images since launch.

Image Swaths (1, 2, 3)

A set of three swaths, labeled 1, 2, and 3, separates the same recorded data into three temperature intervals (defined in Table 3-1). The right set of three swaths is a continuation of the left set and is offset because of the limitations of the 4×5 -inch film format. The three swath presentation is used because it shortens the temperature ranges spanned by

Table 3-1

ESMR Gray Scale Steps Versus Brightness Temperature
for Each of the Three ESMR Swaths in
the ESMR Pictorial Displays
(Temperatures in °K)

		Table 1 Orbit 104 through 502			Table 2 Orbit 503 through 8842		
Swath		1	2	3	1	2	3
(black)	1	>200	>262	>280	>210	>266	>290
Gray Scale Number	2	190-200	256-262	277-280	202-210	258-266	286-290
	3	180-190	250-256	274-277	194-202	250-258	282-286
	4	170-180	240-250	271-274	186-194	242-250	278-282
	5	160-170	230-240	268-271	178-186	234-242	274-278
	6	150-160	220-230	265-268	170-178	226-234	270-274
	7	140-150	210-220	262-265	162-170	218-226	266-270
	8	130-140	200-210	259-262	154-162	210-218	262-266
	9	120-130	190-200	256-259	146-154	202-210	258-262
	10	110-120	180-190	253-256	138-146	194-202	254-258
(white)	11	<110	<180	<253	<138	<194	<254

each step of the gray scale, and, therefore, permits discrimination of various meteorological and terrestrial phenomena.

Significant in swath 1 are the areas of atmospheric moisture and rainfall over oceans. Swath 2 brightness temperature range discriminates between new and multi-year ice and, over oceans, shows only rainfall areas. The high brightness temperatures of swath 3 outline some land areas of high soil moisture content or snow cover, but oceans lose almost all their temperature contrasts. The swath 3 information was lost because of an instrument malfunction between orbit 1062 (28 February 1973) and orbit 2250 (27 May 1973), and for short intervals after orbit 3015 (23 July 1973).

Time Code Index

The Time Code Index, in hours and minutes (GMT), is adjacent to the gray scale. The top number in each set is for the left group of three

swaths; the bottom number in each set is for the right group of three swaths. Time bars are spaced at five-minute intervals. The same time bars are used for the left and right swaths. The top or bottom time code index determines the time for each time bar.

Grids

Two grids, labeled GRID L and GRID R, identify the geographic coordinates for the imagery of the left (L) and the right (R) sets of swaths, respectively. Latitude lines are spaced at 10-degree intervals. Longitude lines are spaced at 10-degree intervals to 60 degrees north and south of the equator, and at 20-degree intervals from 60 to 80 degrees north and south. The equator (EQ), North Pole (NP), and South Pole (SP) are labeled, as well as longitude values at the equator and at 30 and 60 degrees north and south of the equator.

Swath Display Program

The antenna gain function is different at each beam position. Thus, to present a uniform surface temperature as the same shade of gray across a scan track requires that the output voltage at each antenna position be adjusted for its beam position and output voltage value. If the corrections are not precise, vertical bands will be evident in the ESMR pictorial displays.

Three different sets of calibration constants (Display Format Programs) were used during the first two months of operation to eliminate these vertical bands. Two additional programs have been used since the instrument malfunction of 28 February 1973. Volume 1 of this catalog series illustrates the vertical banding produced by the first three programs, while the images in this section illustrate the banding produced by the last two. After 27 May 1973, Program 5 was used for image displays whenever the instrument was operating normally. Table 3-2 shows the Display Format Programs used during this catalog period.

The brightness temperature accuracy varied with each Display Format Program. With display Program 1, which uses prelaunch calibration constants, the digital brightness temperature values have about $\pm 20^{\circ}\text{K}$ accuracy. With a change to postlaunch calibration constants, Programs 2 and 4 produce about $\pm 2^{\circ}$ to 5°K temperature value accuracies. Of course, with Programs 2 and 4, the displayed temperature values are accurate only within the limits of the temperature range of each step of the gray scales as defined in Table 3-1. Display Programs 5 and 6, used after the instrument malfunction of 28 February 1973, are considered to produce $\pm 10^{\circ}\text{K}$ temperature accuracies on the image displays.

A description of the ESMR experiment may be found in The Nimbus 5 User's Guide, Section 4, and instructions for ordering the data, both pictorial and digital, are in Section 1. 7 of that Guide.

Table 3-2

ESMR Display Format Programs for
August and September 1974

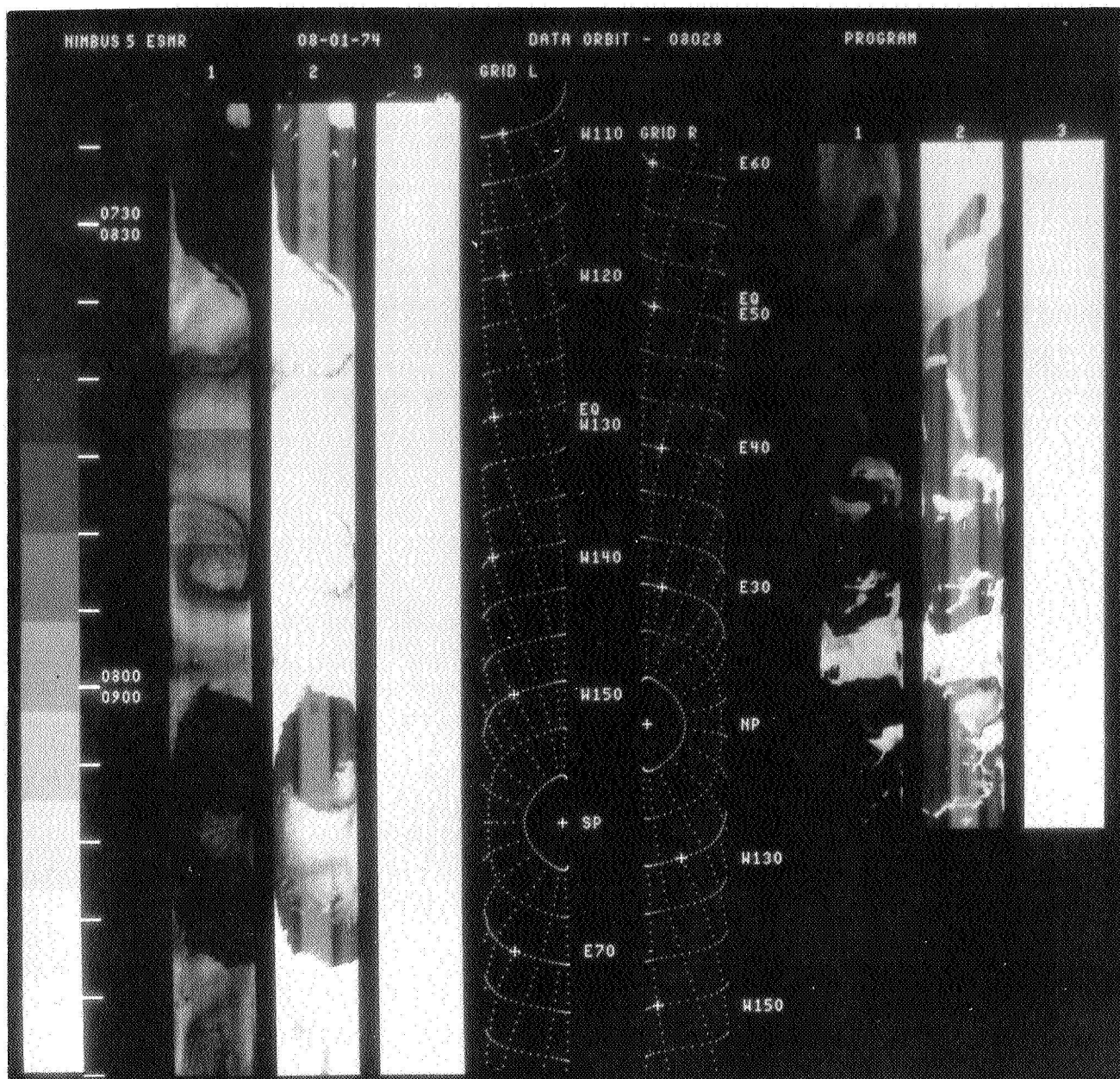
Orbits Processed with Display Format Program 5*		Orbits Processed with Display Format Program 6**	
Date	Orbits	Date	Orbits
09 Aug	8134-8135	01-09 Aug	8024-8133
09-10 Aug	8142-8147	09 Aug	8136-8141
11 Aug	8159-8164	10 Aug	8147-8159
12 Aug	8178-8184	11-12 Aug	8164-8178
15 Aug	8218-8221	12-15 Aug	8184-8218
15-20 Aug	8223-8284	15 Aug	8221-8222
20 Aug - 9 Sept	8286-8560	20 Aug	8284-8285
09-30 Sept	8561-8842	9 Sept	8560

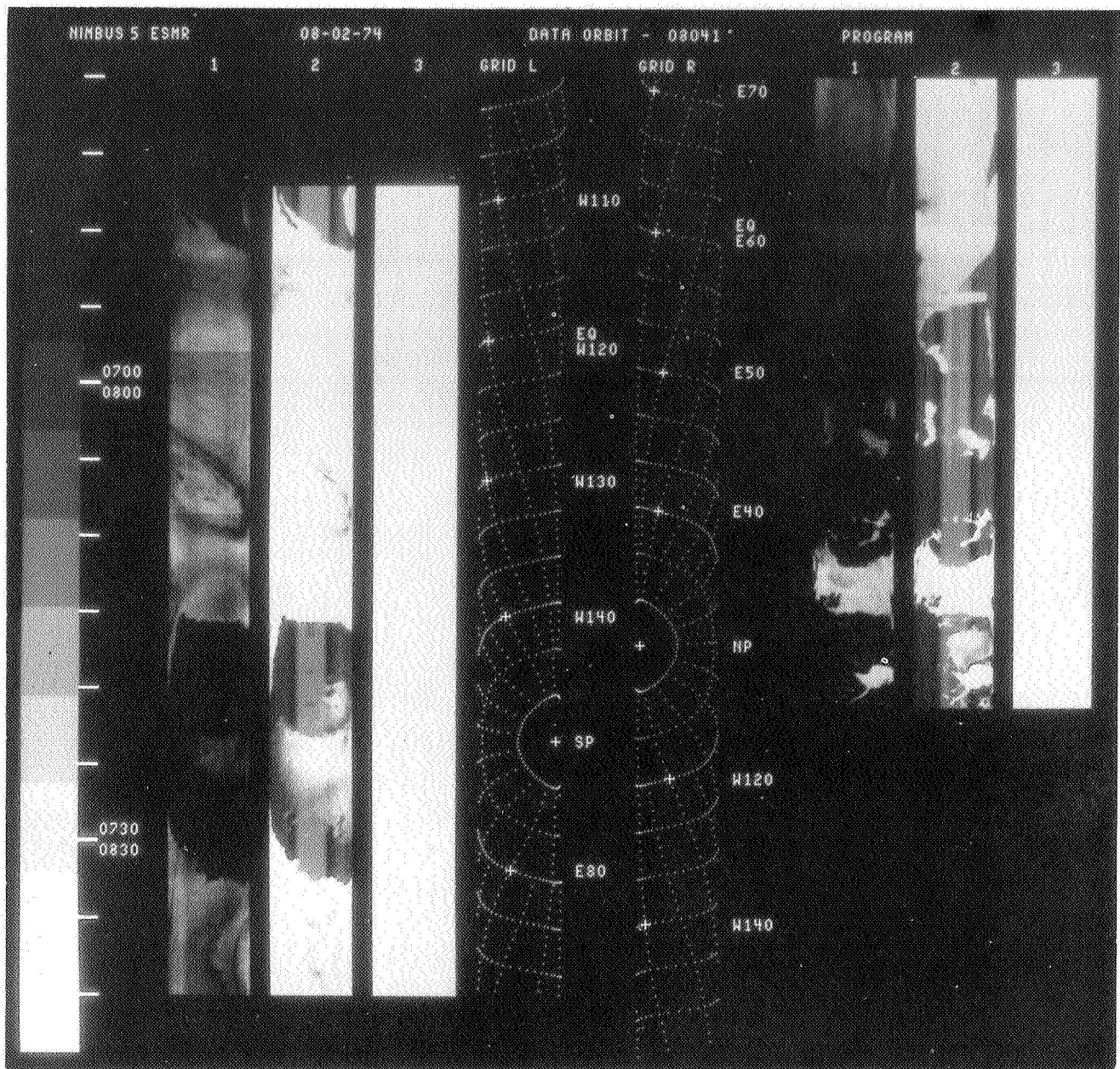
*Program 5 is used whenever the instrument is operating normally (data in all three swaths).

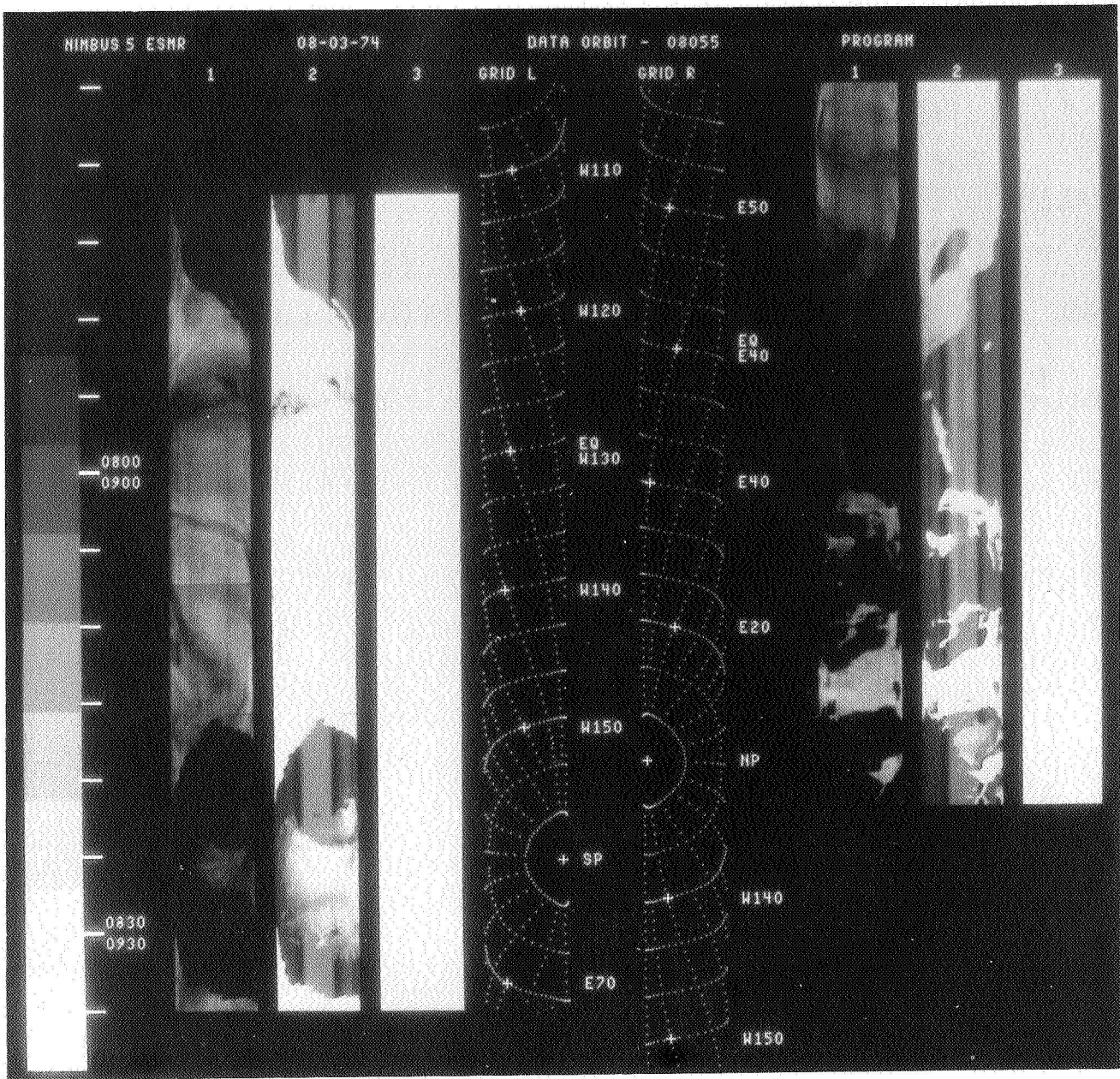
**Program 6 is used whenever the instrument is operating in the reduced response mode (data only in swaths one and two).

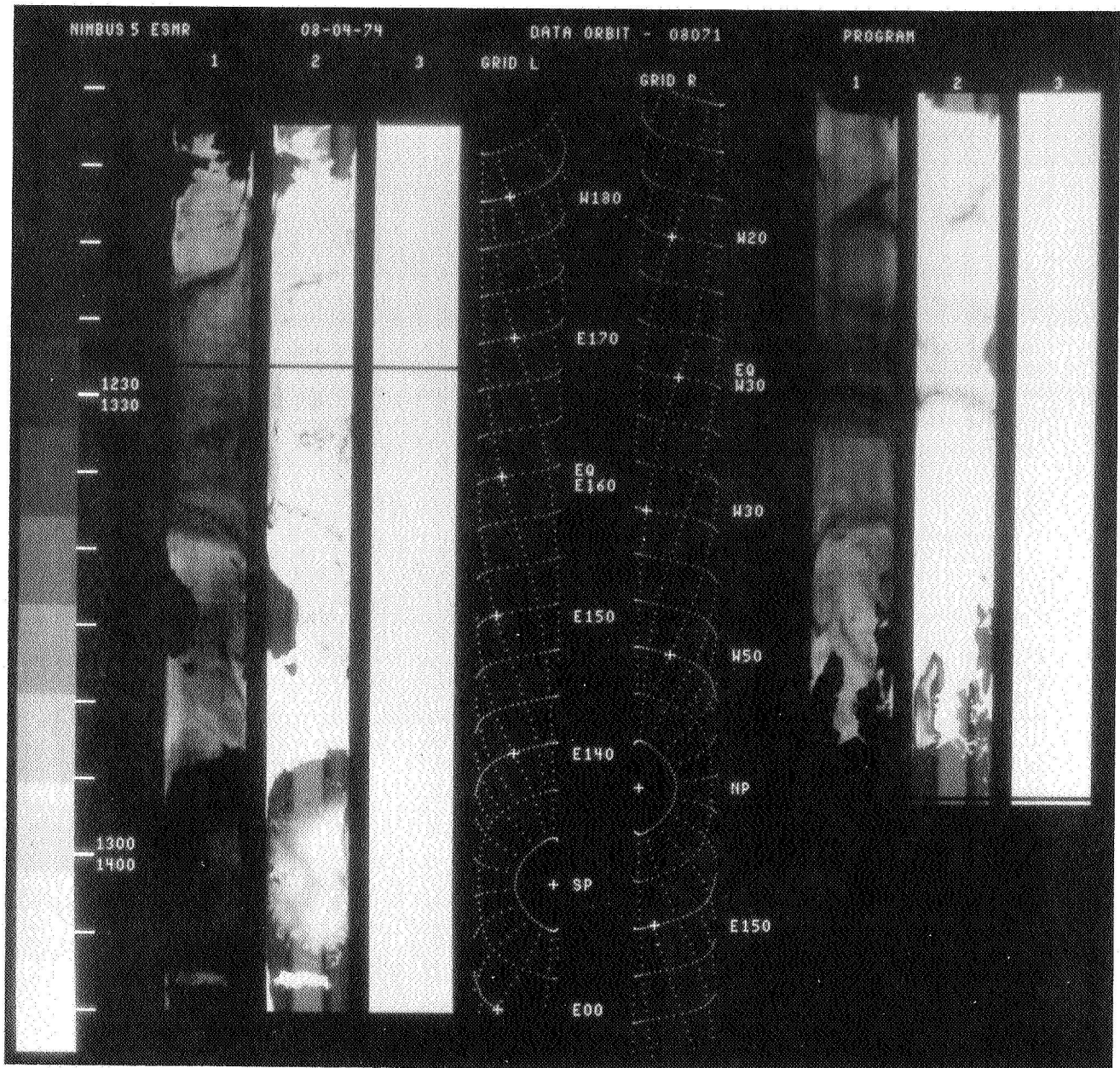
All orbits were processed with gray Scale Brightness Temperature Table 2 values (See Table 3-1).

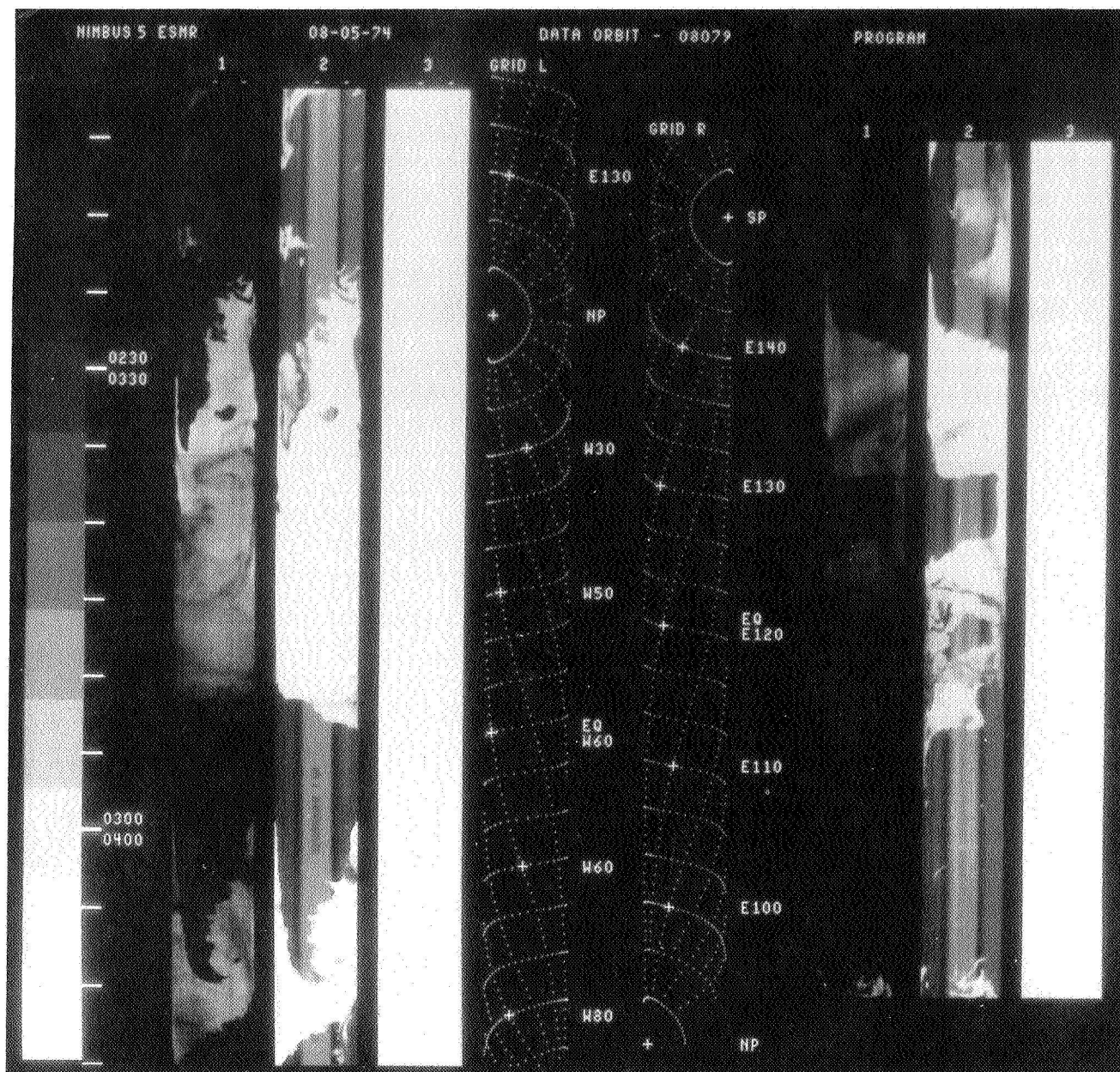
An orbit listed under both processing programs means the ESMR operated in both modes during that orbit.

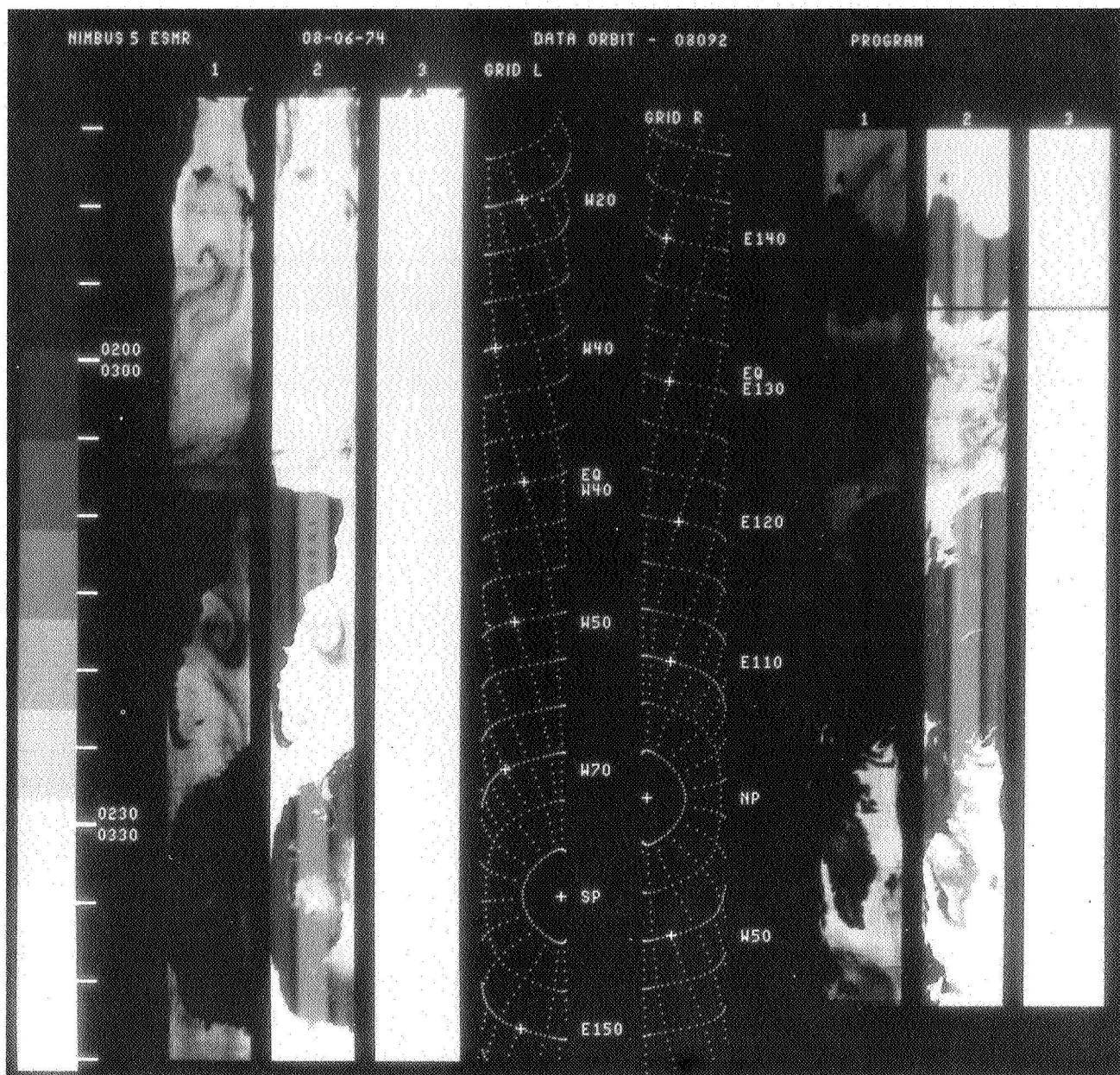


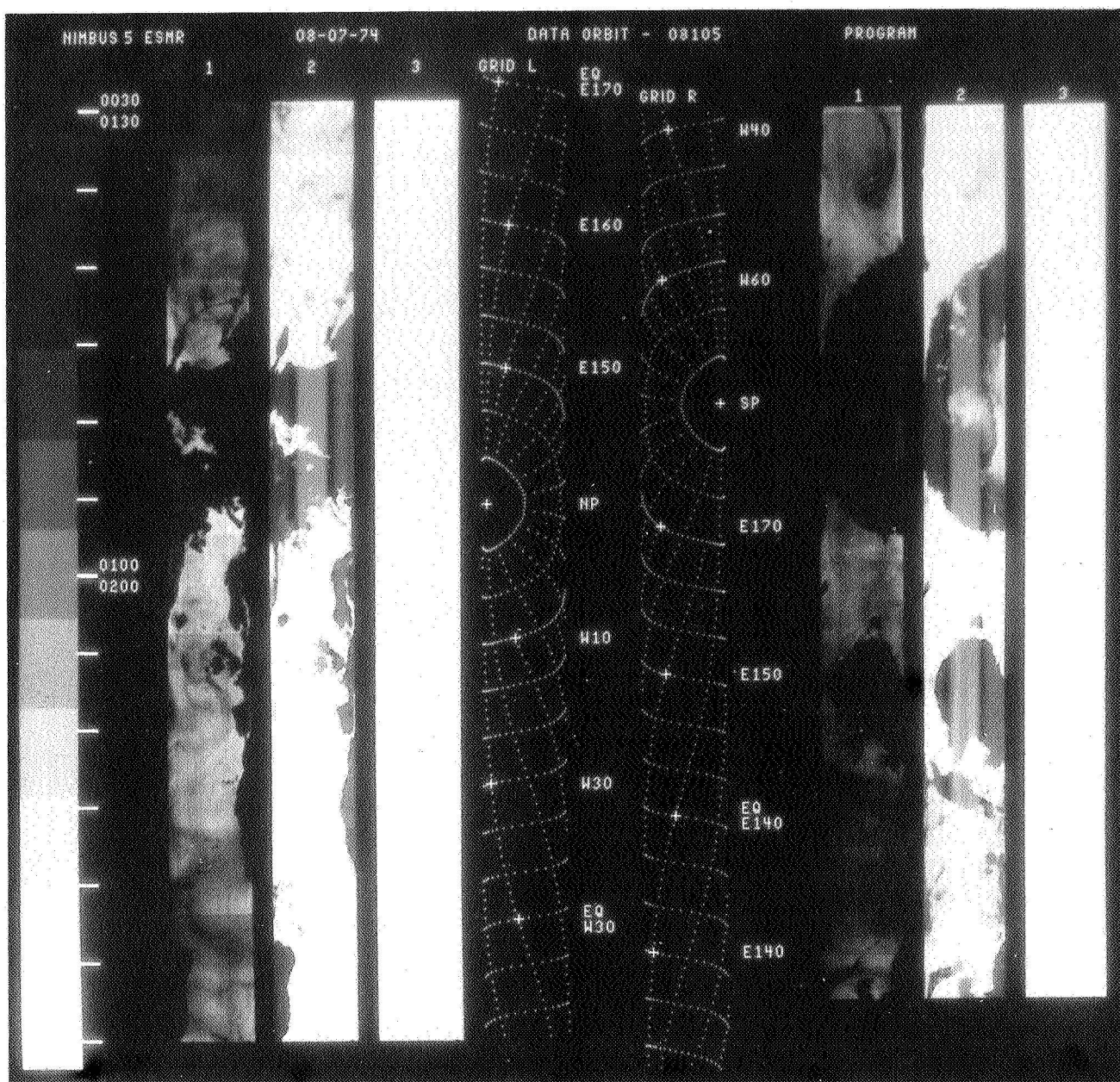


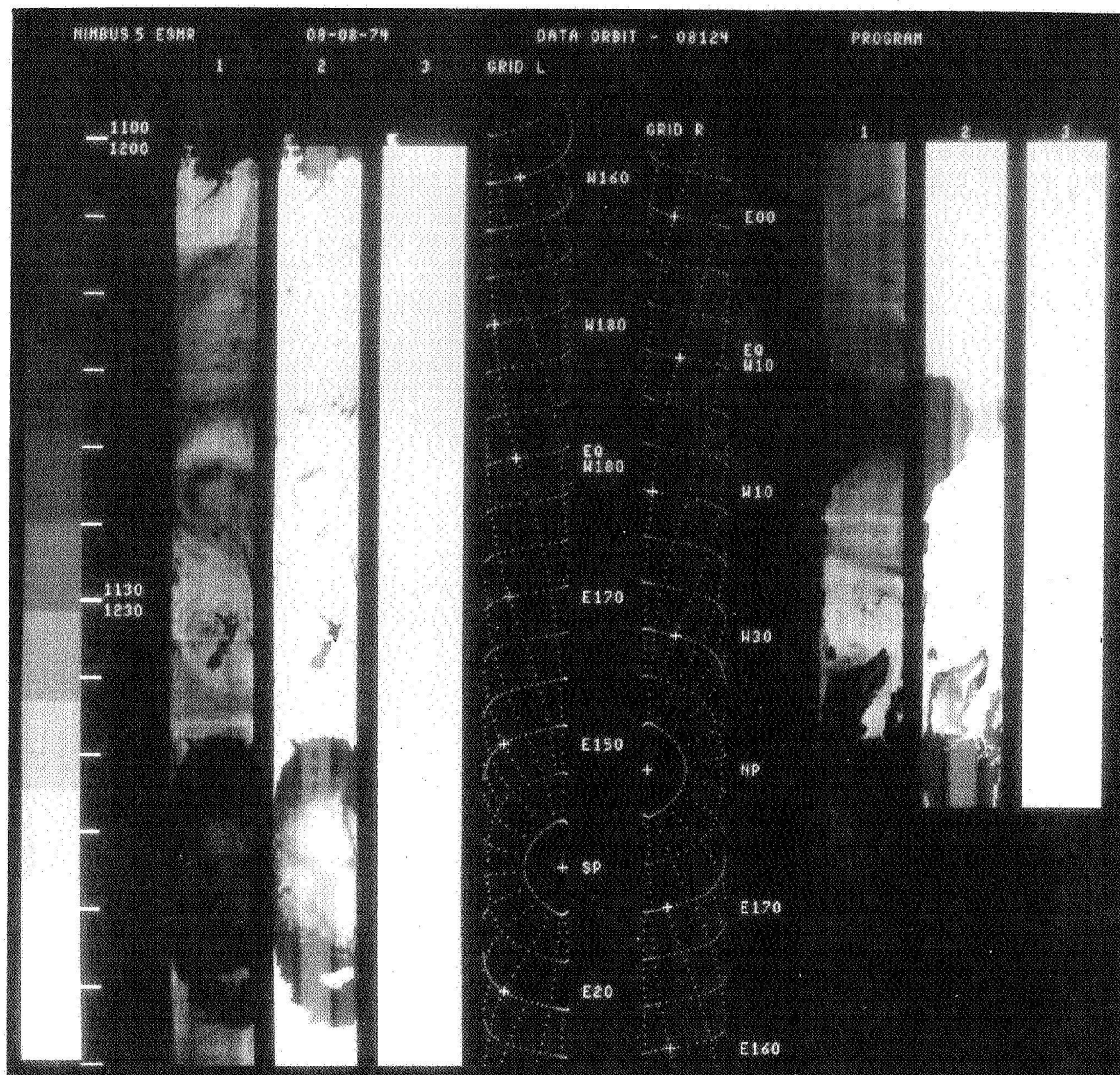


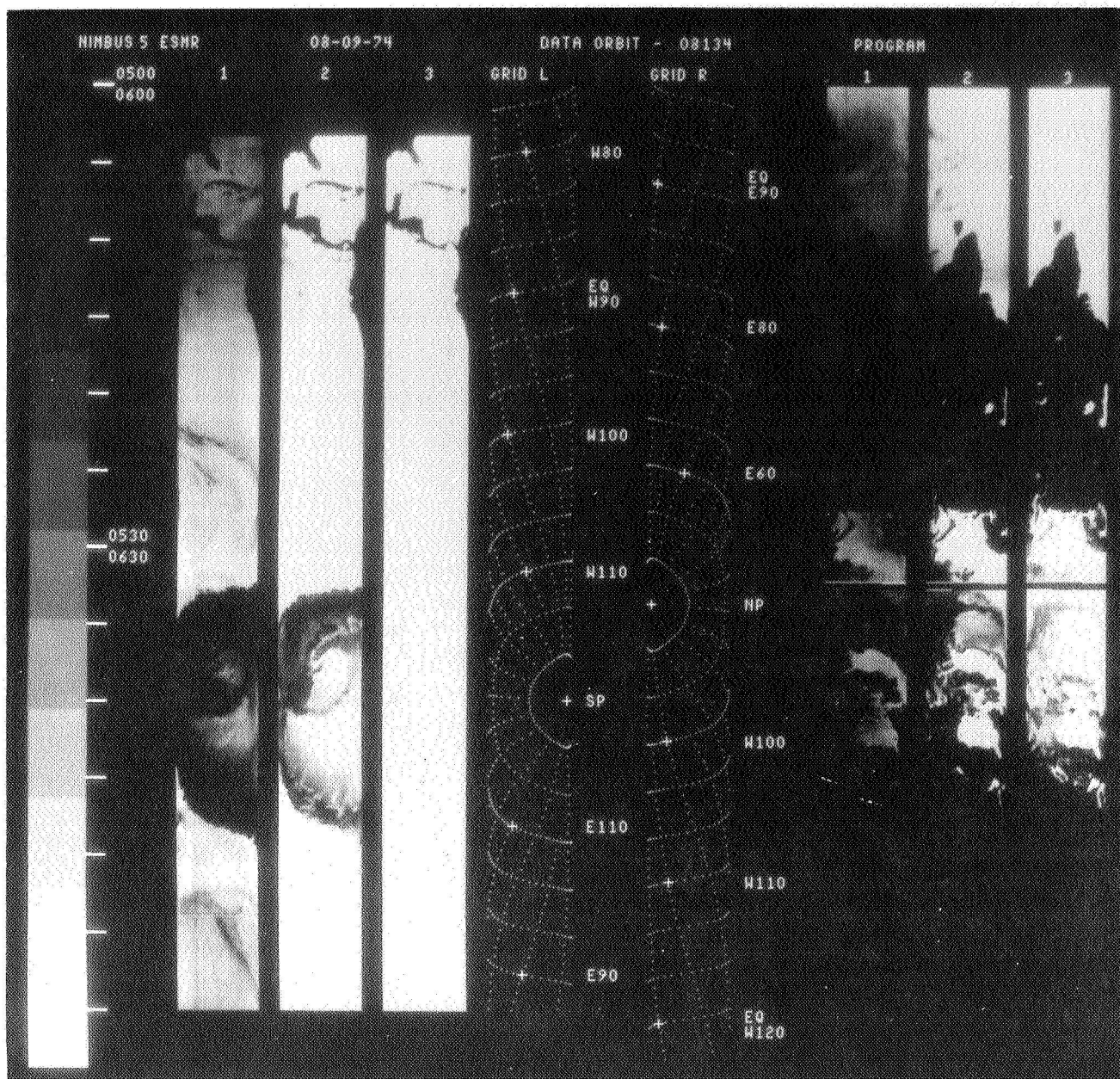


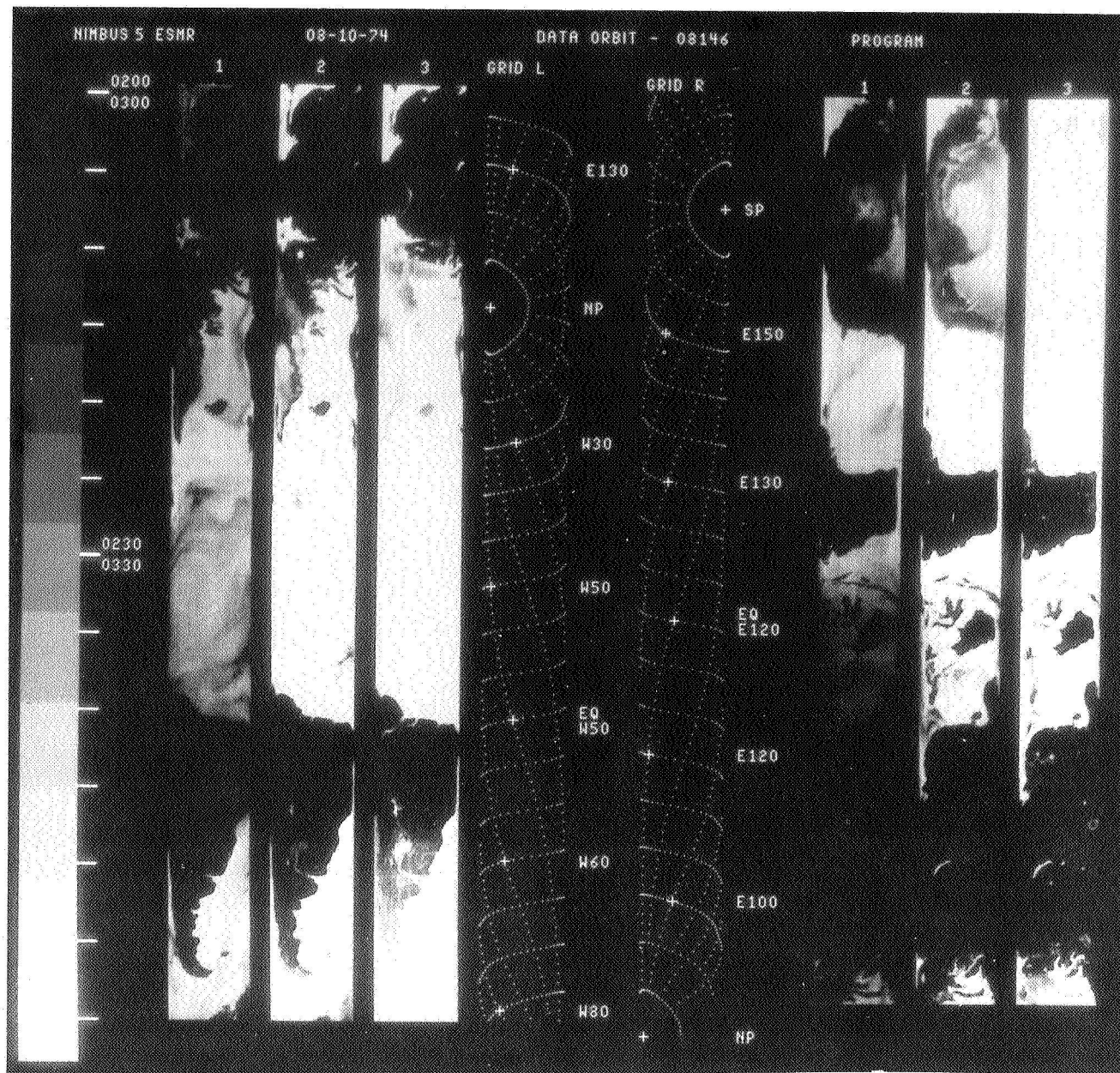


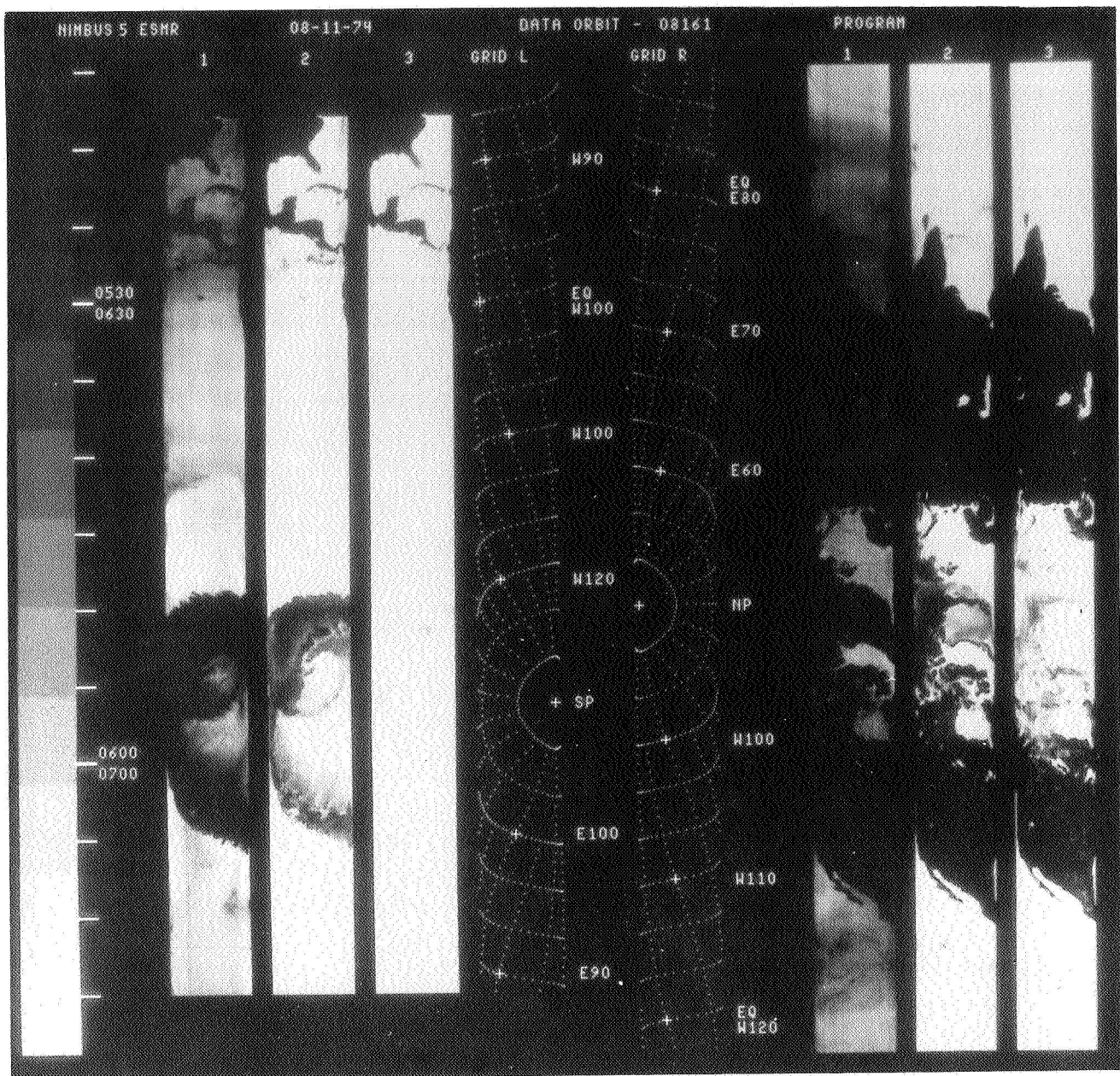


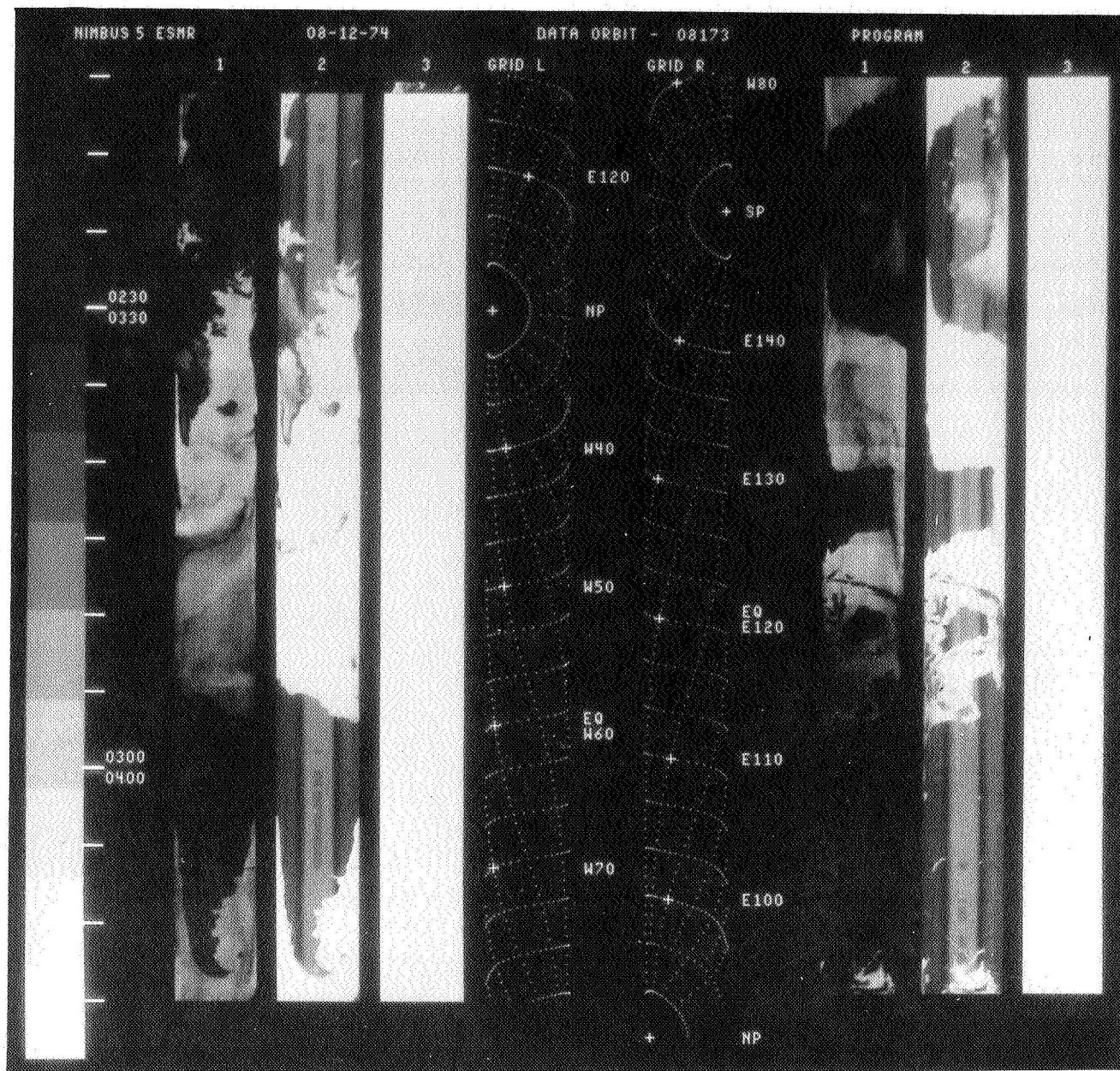


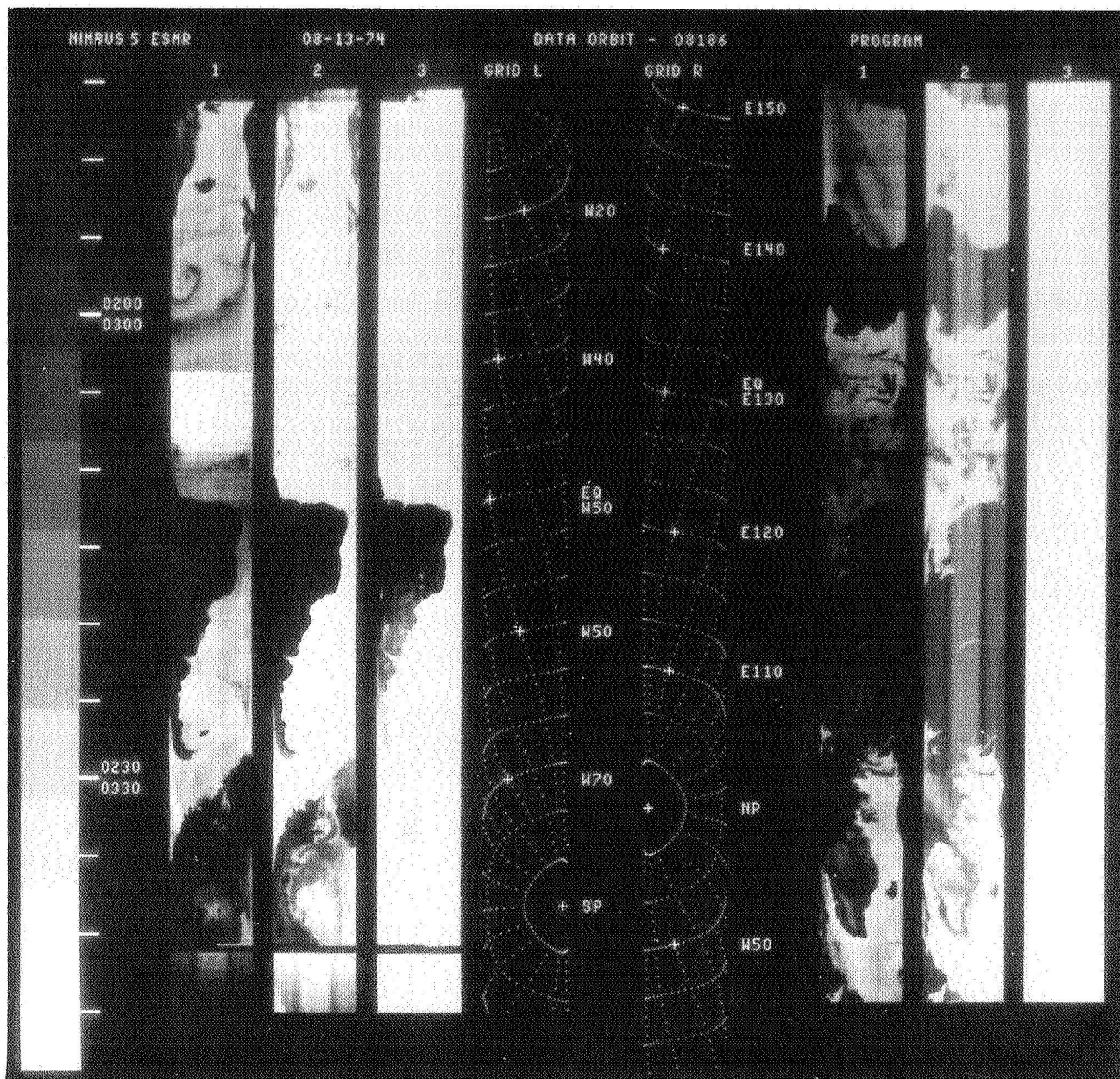


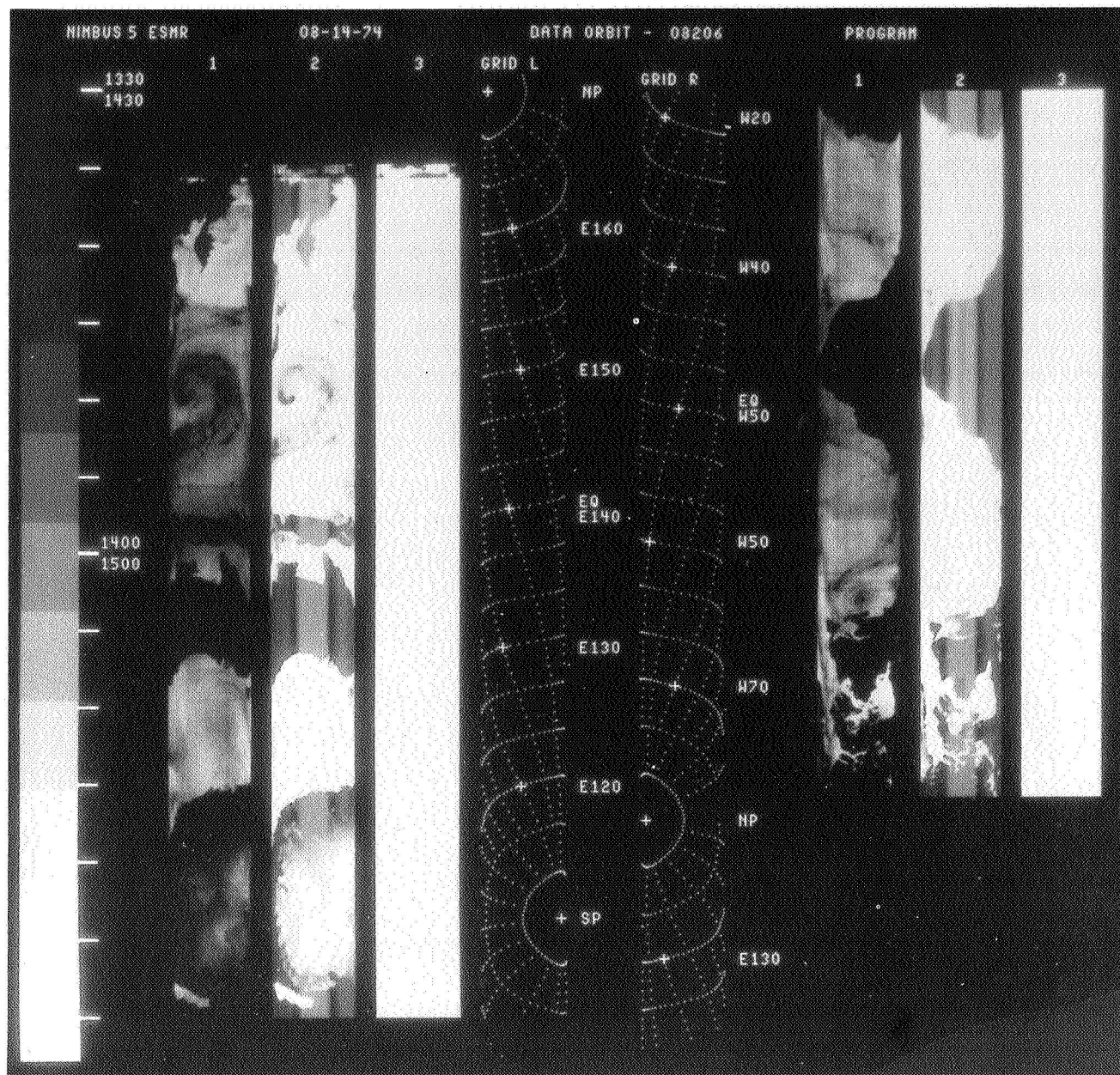


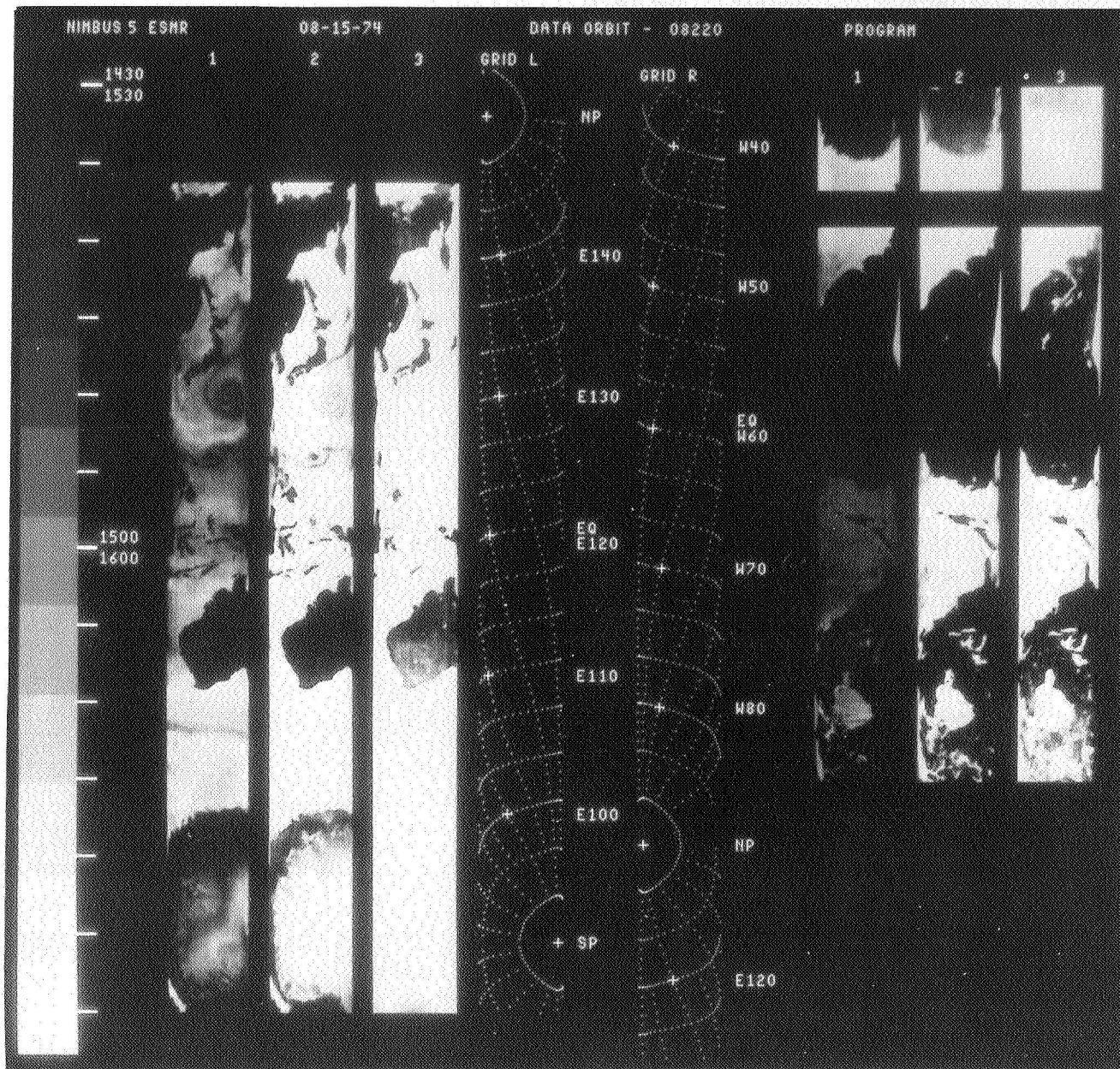










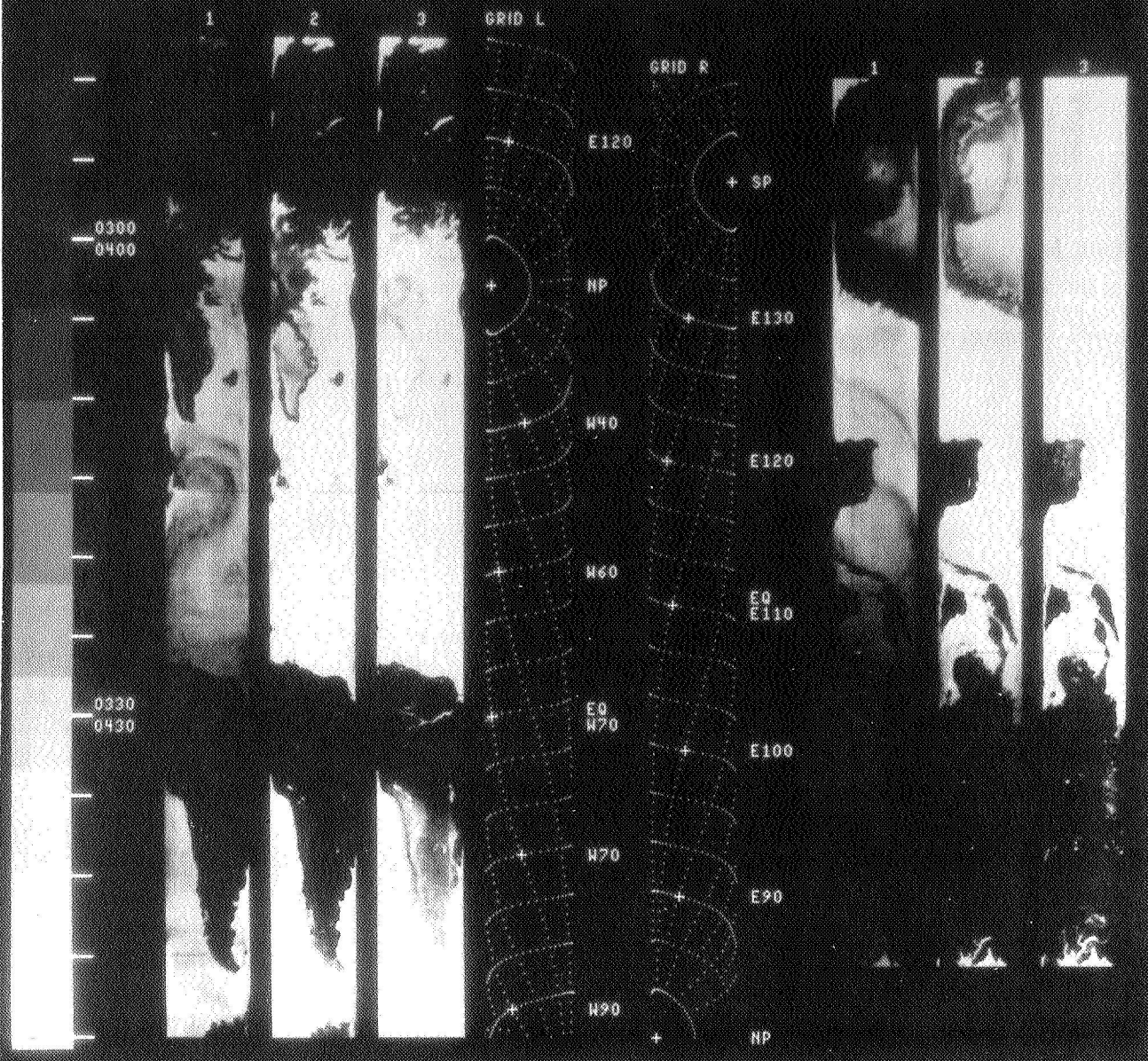


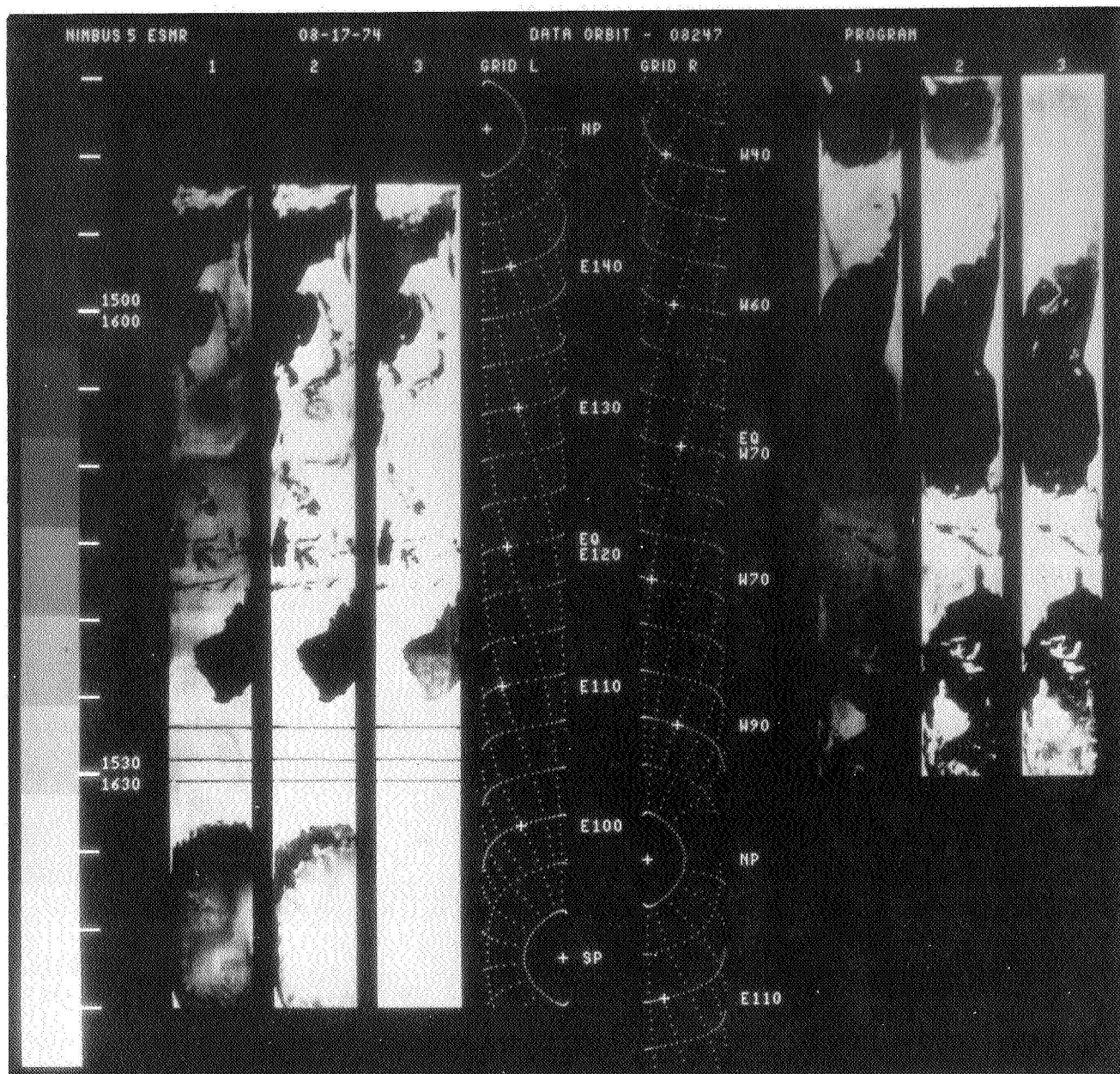
NIRBUS 5 ESHR

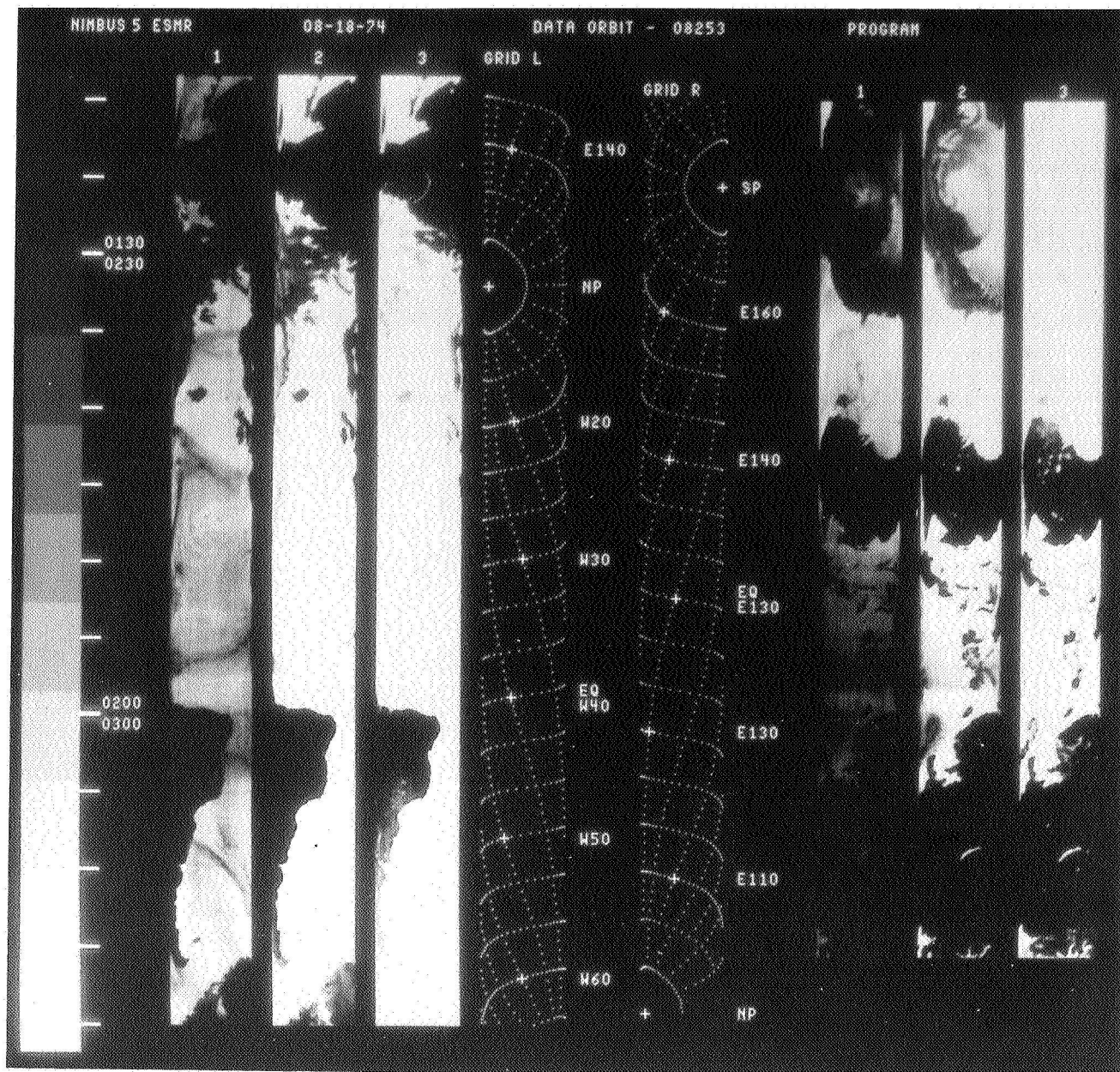
08-16-74

DATA ORBIT - 08227

PROGRAM





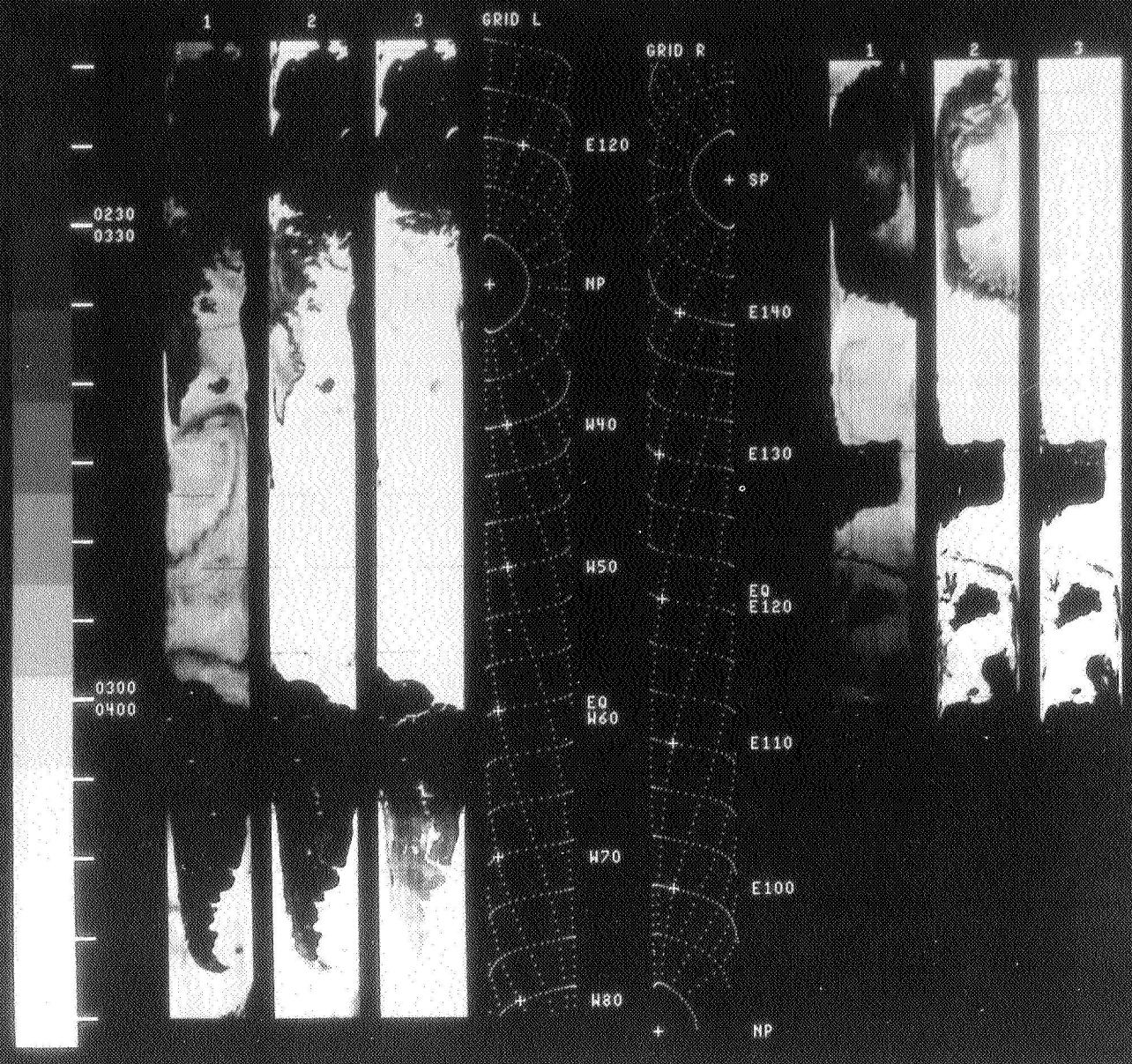


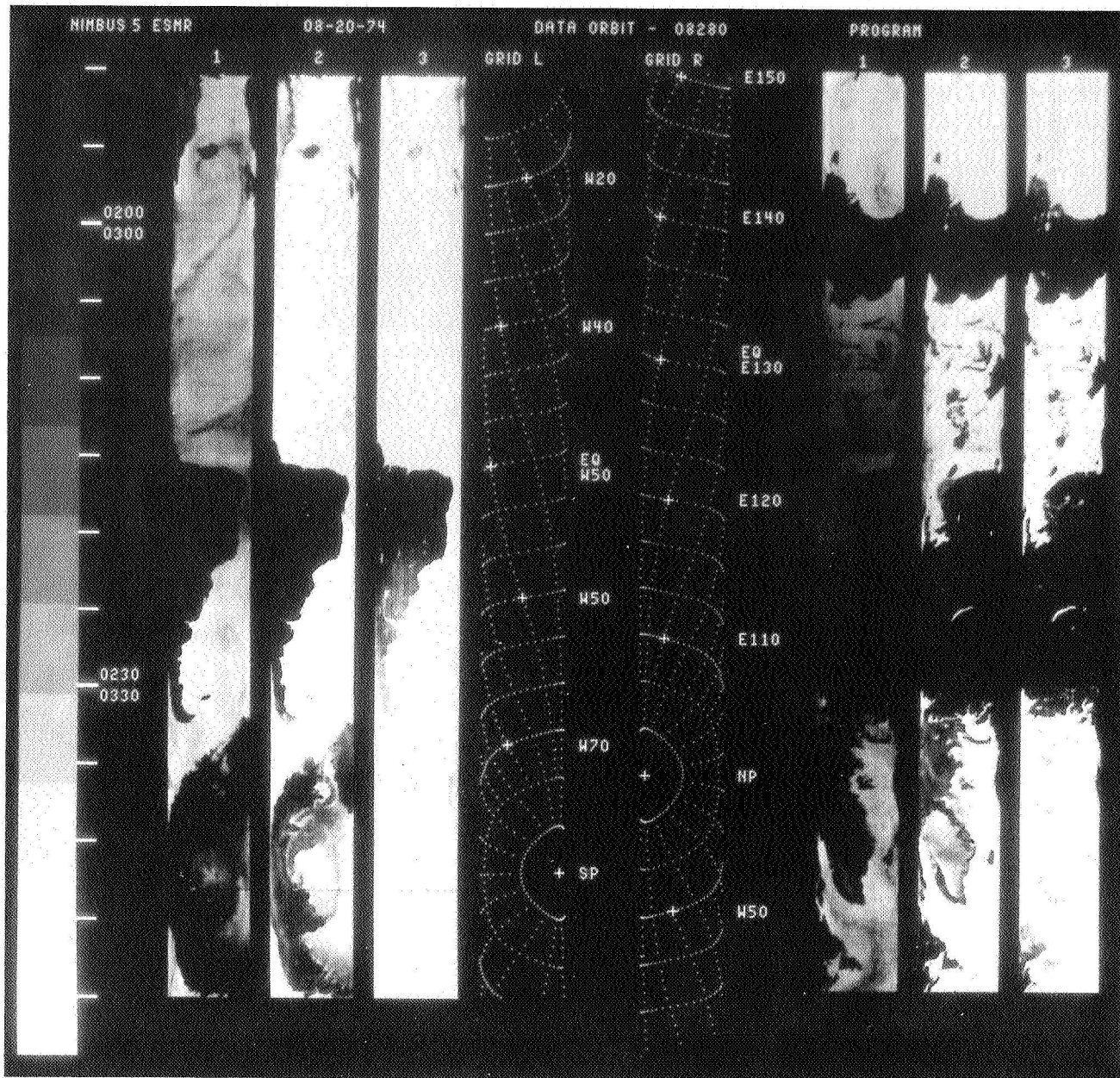
NIMBUS 5 ESMR

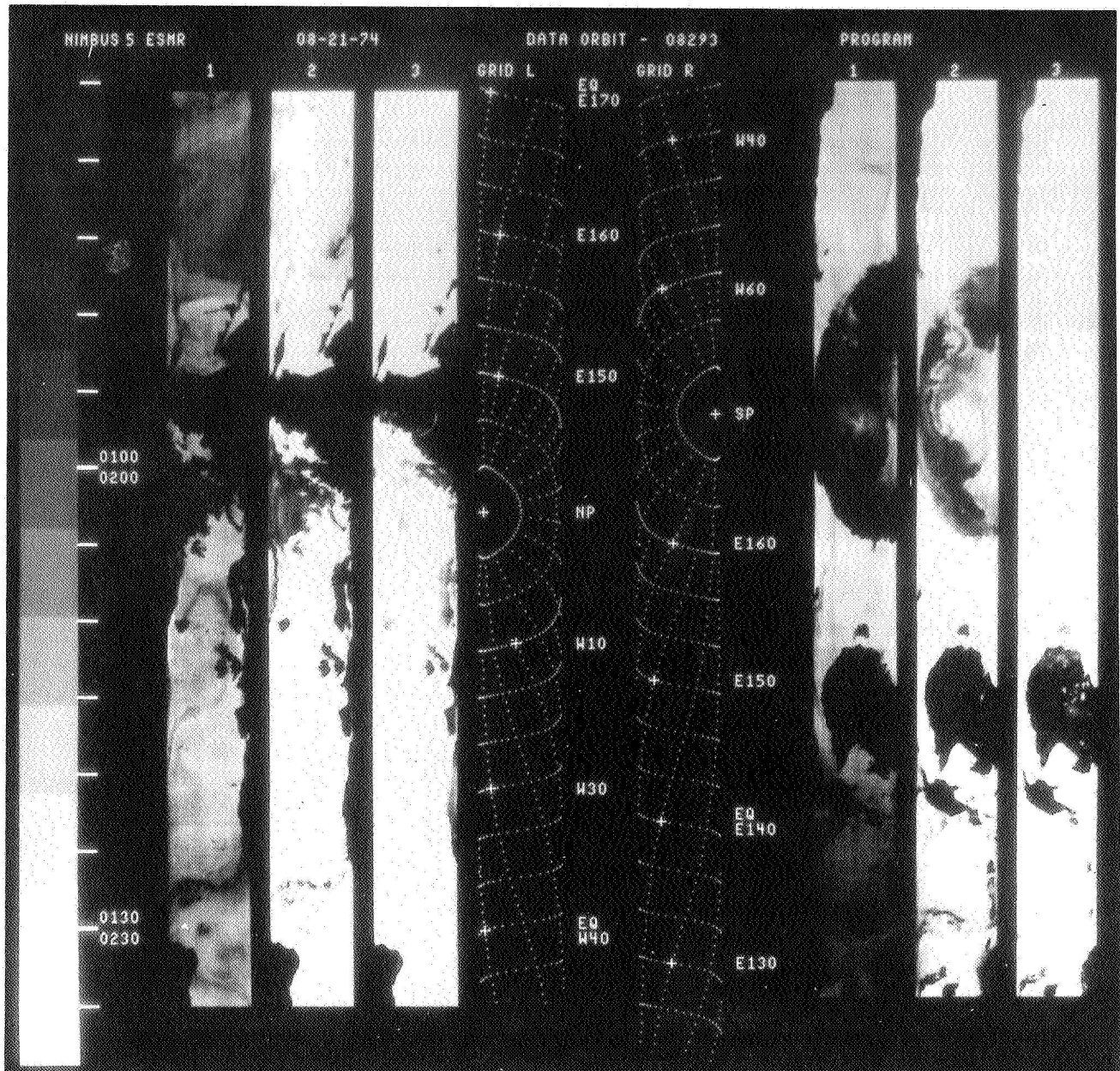
08-19-74

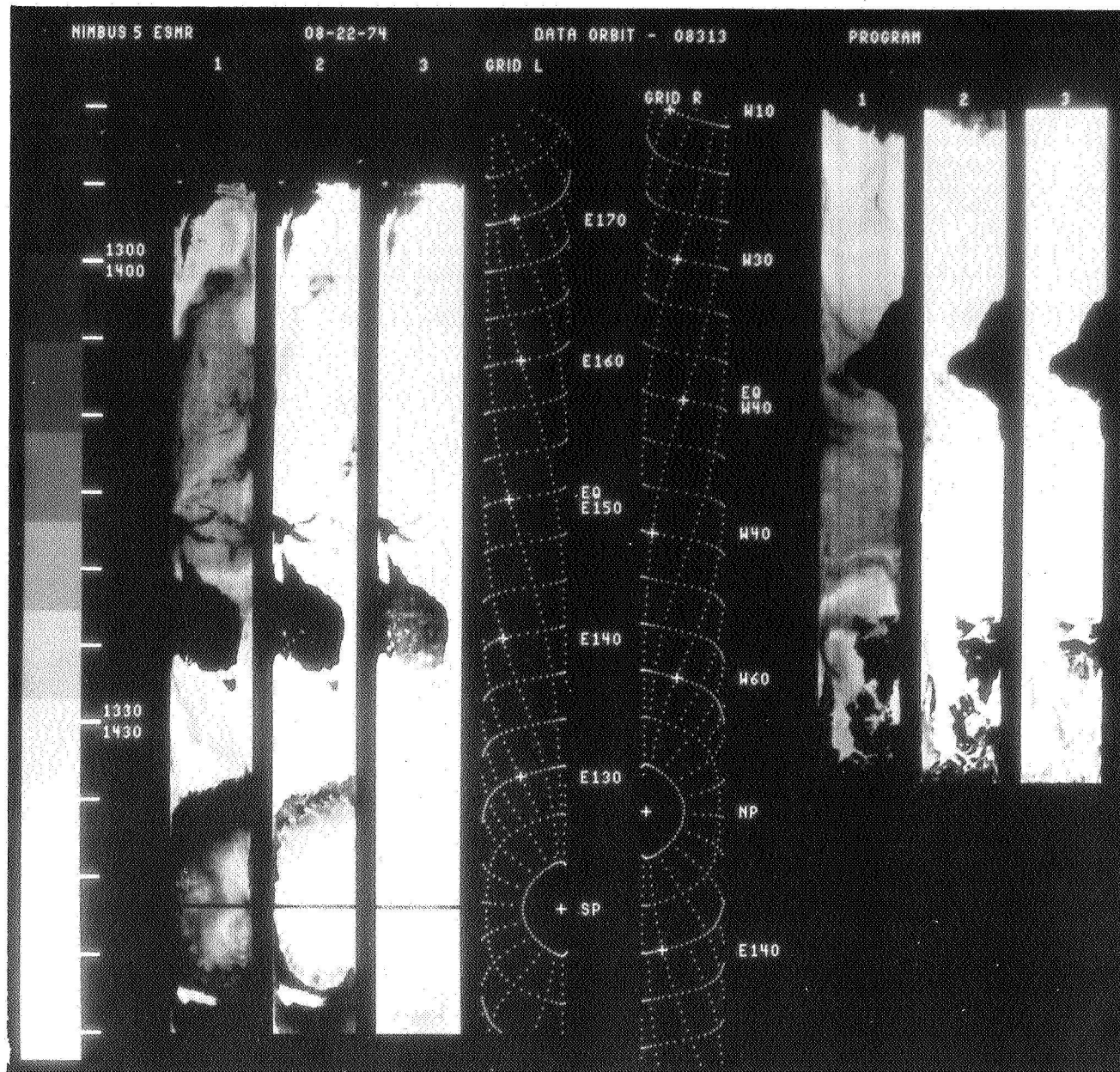
DATA ORBIT - 08267

PROGRAM









NIMBUS 5 ESR

08-23-74

DATA ORBIT - 08324

PROGRAM

1

2

3

GRID L

GRID R

1

2

3

0900
1000

0930
1030

W120

E40

W140

E30

E0

W150

E20

W150

E10

W170

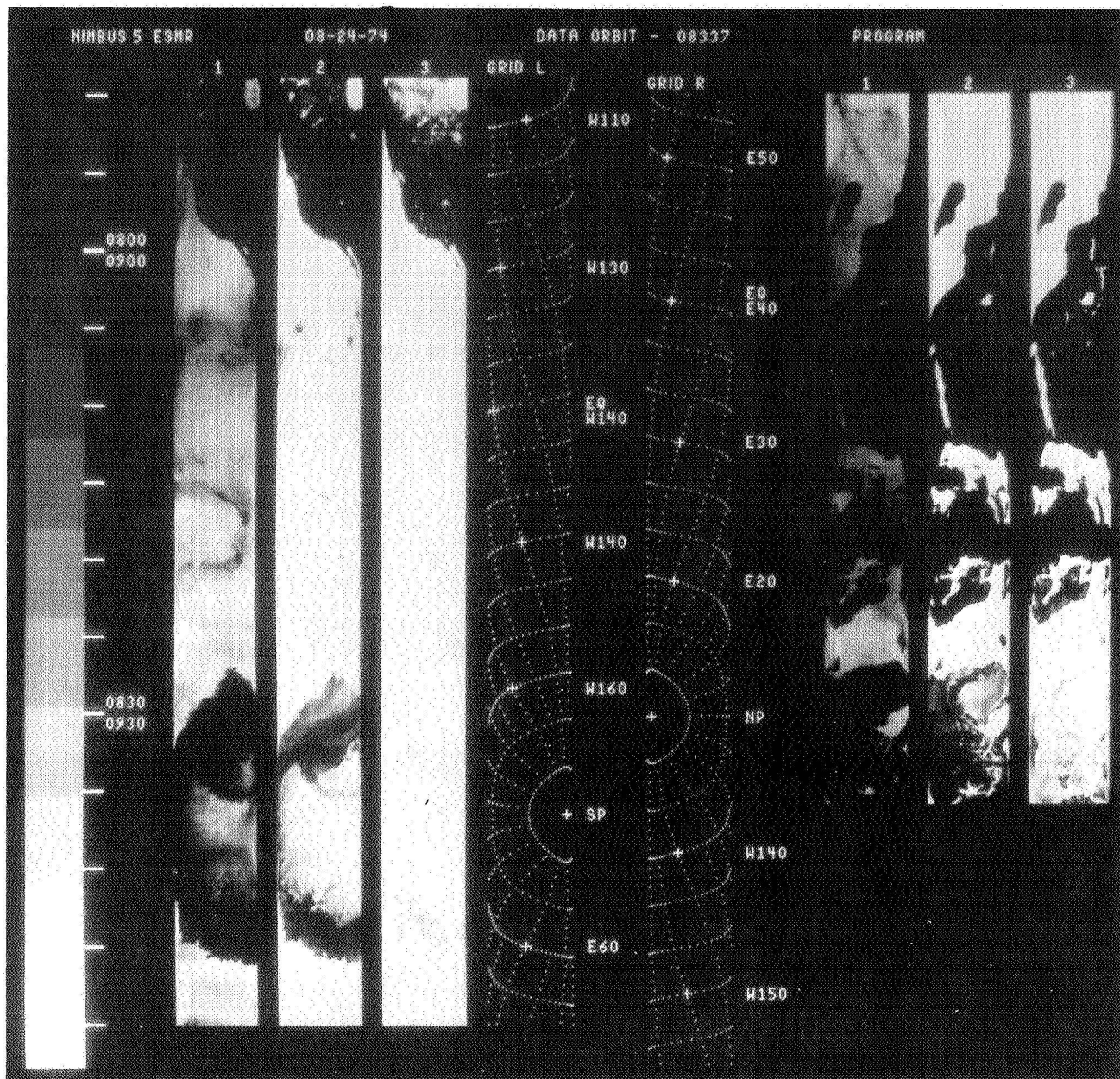
HP

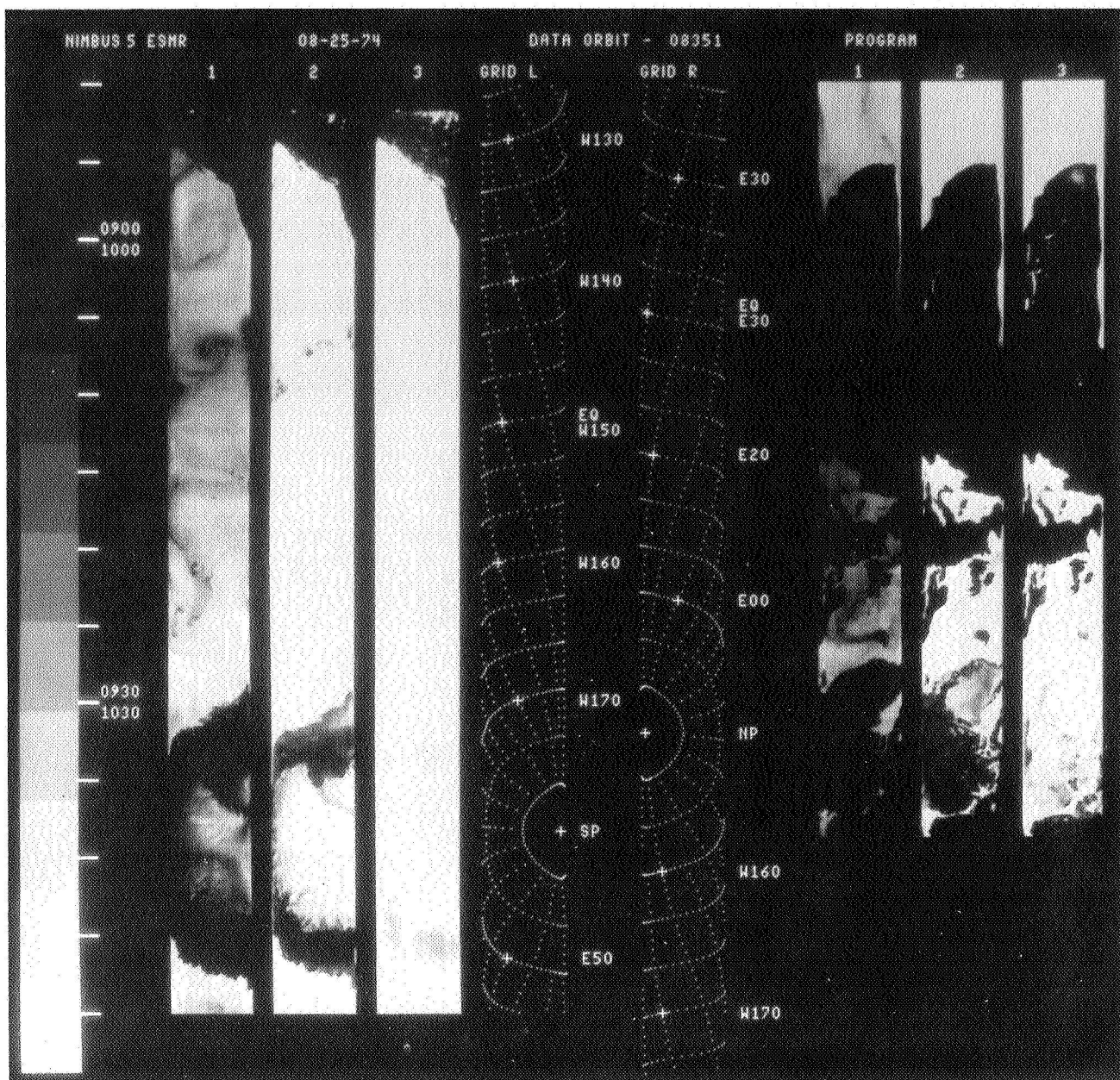
+ SP

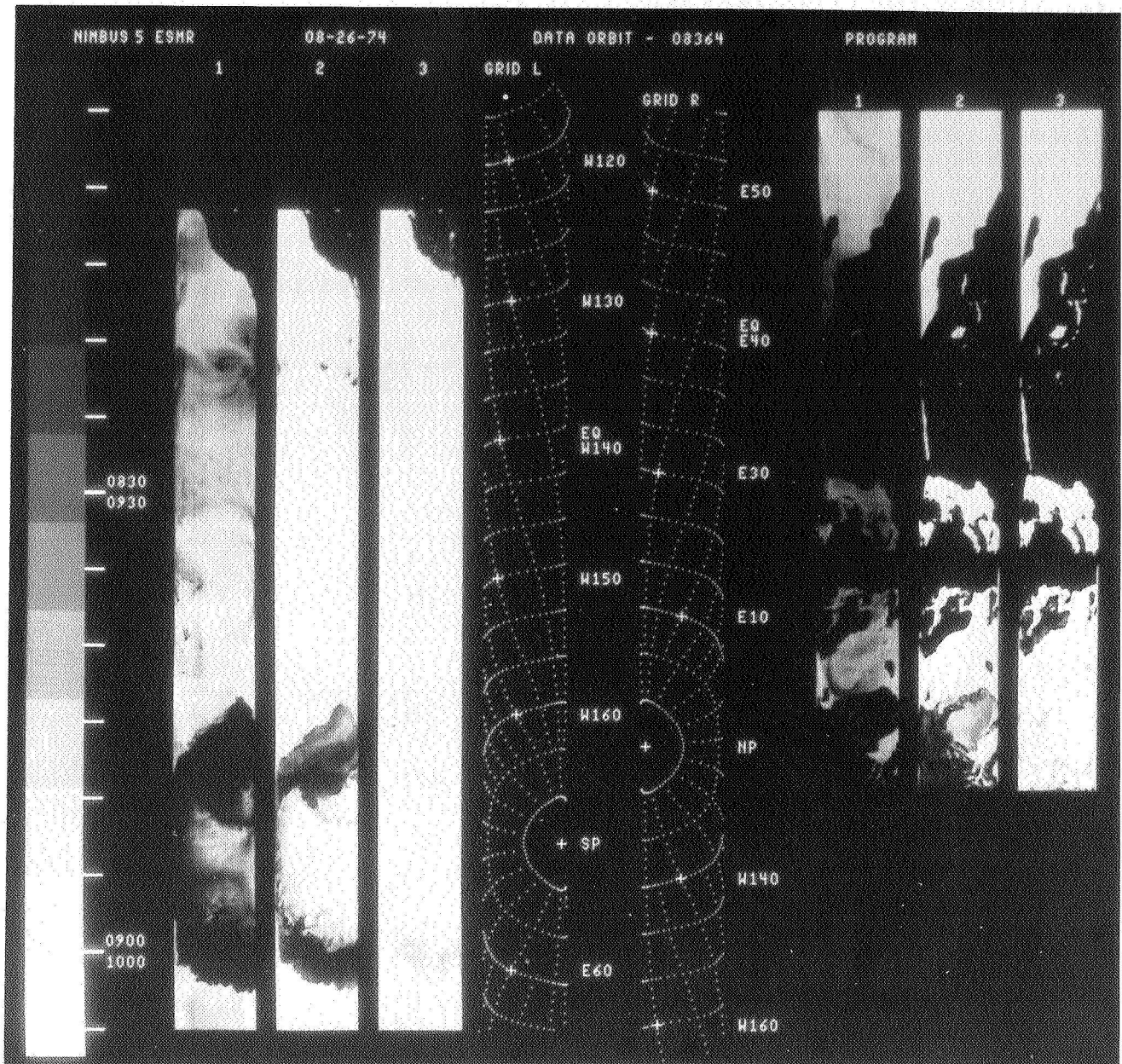
W150

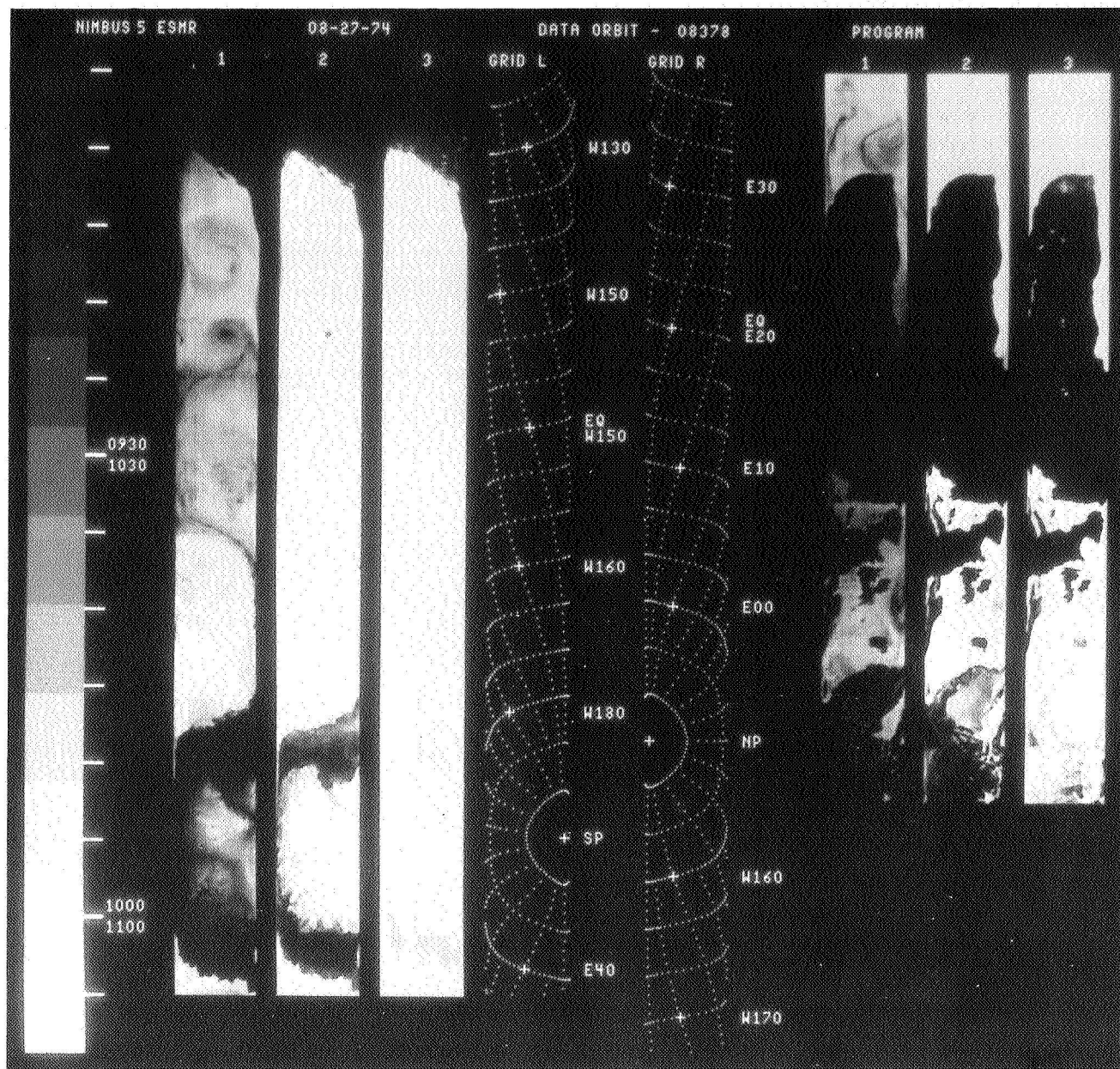
E50

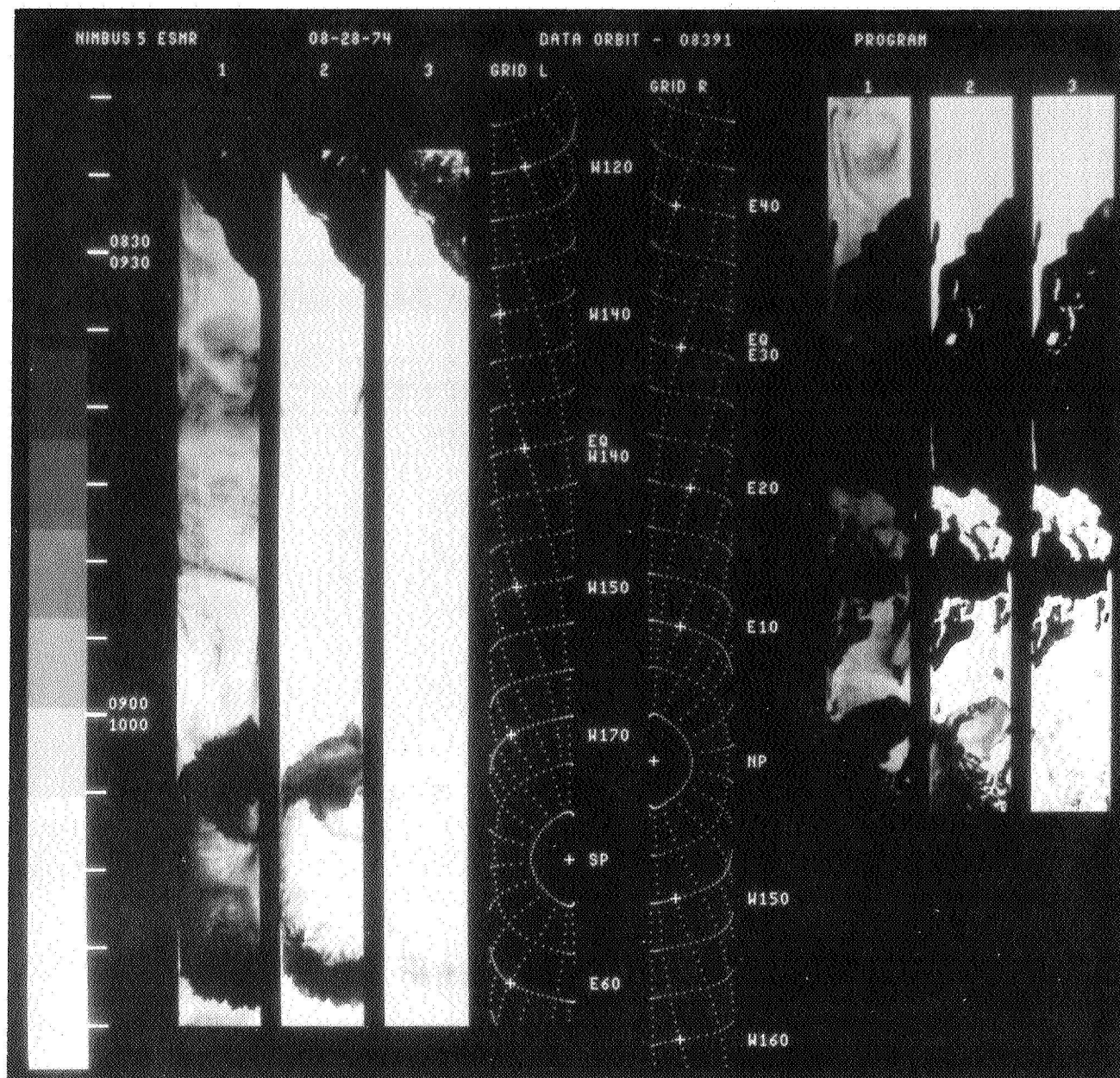
W170

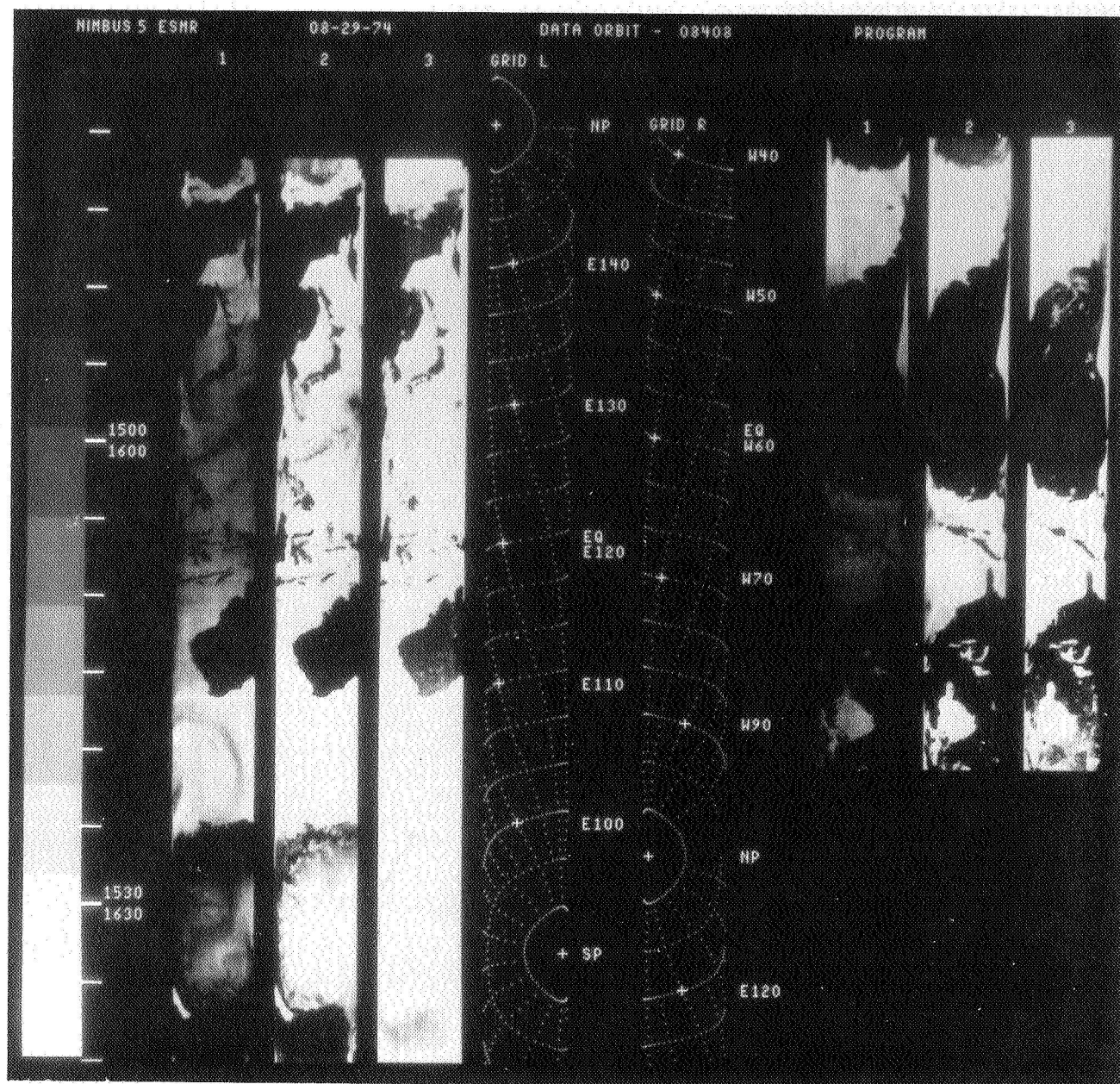


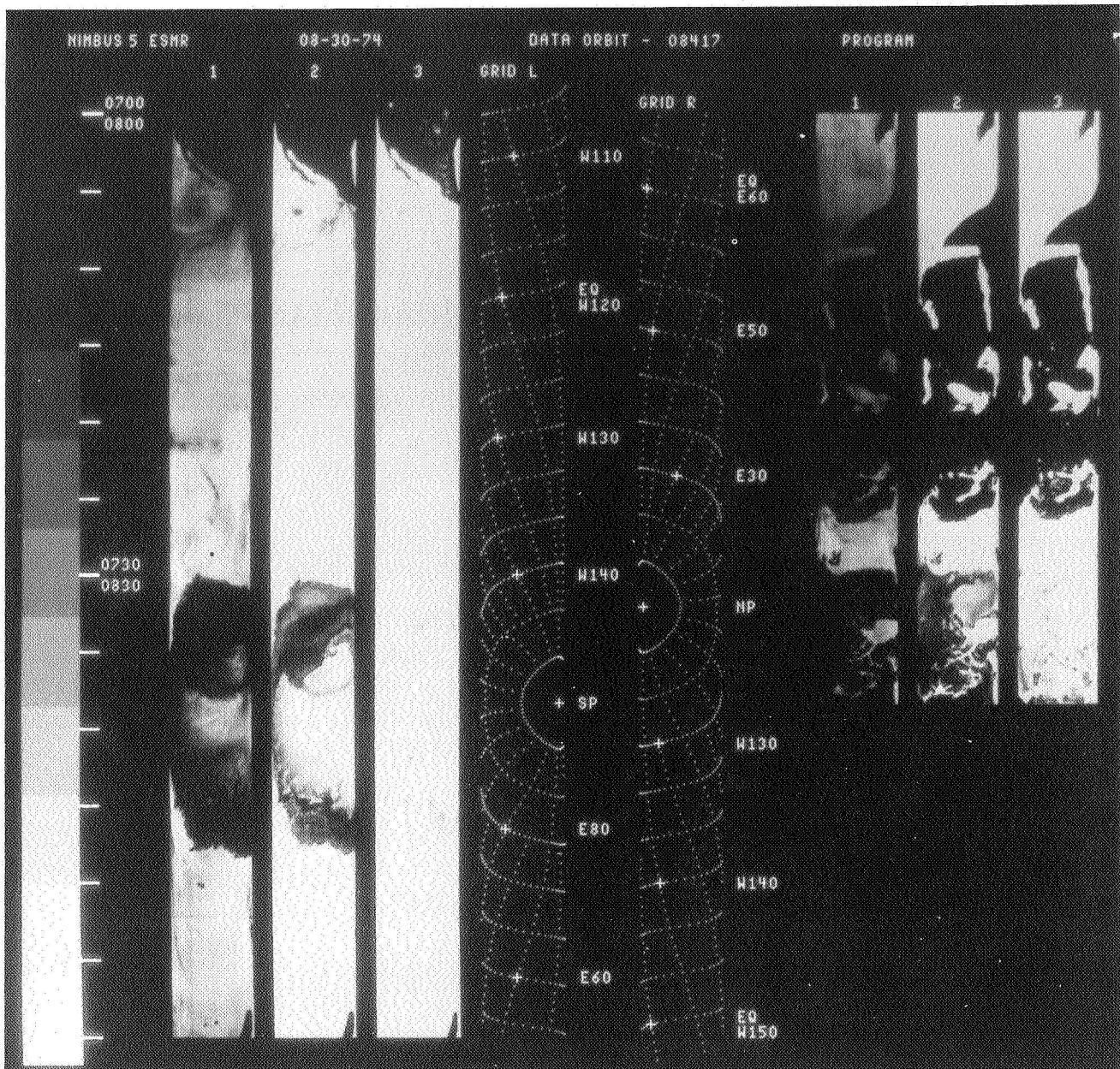


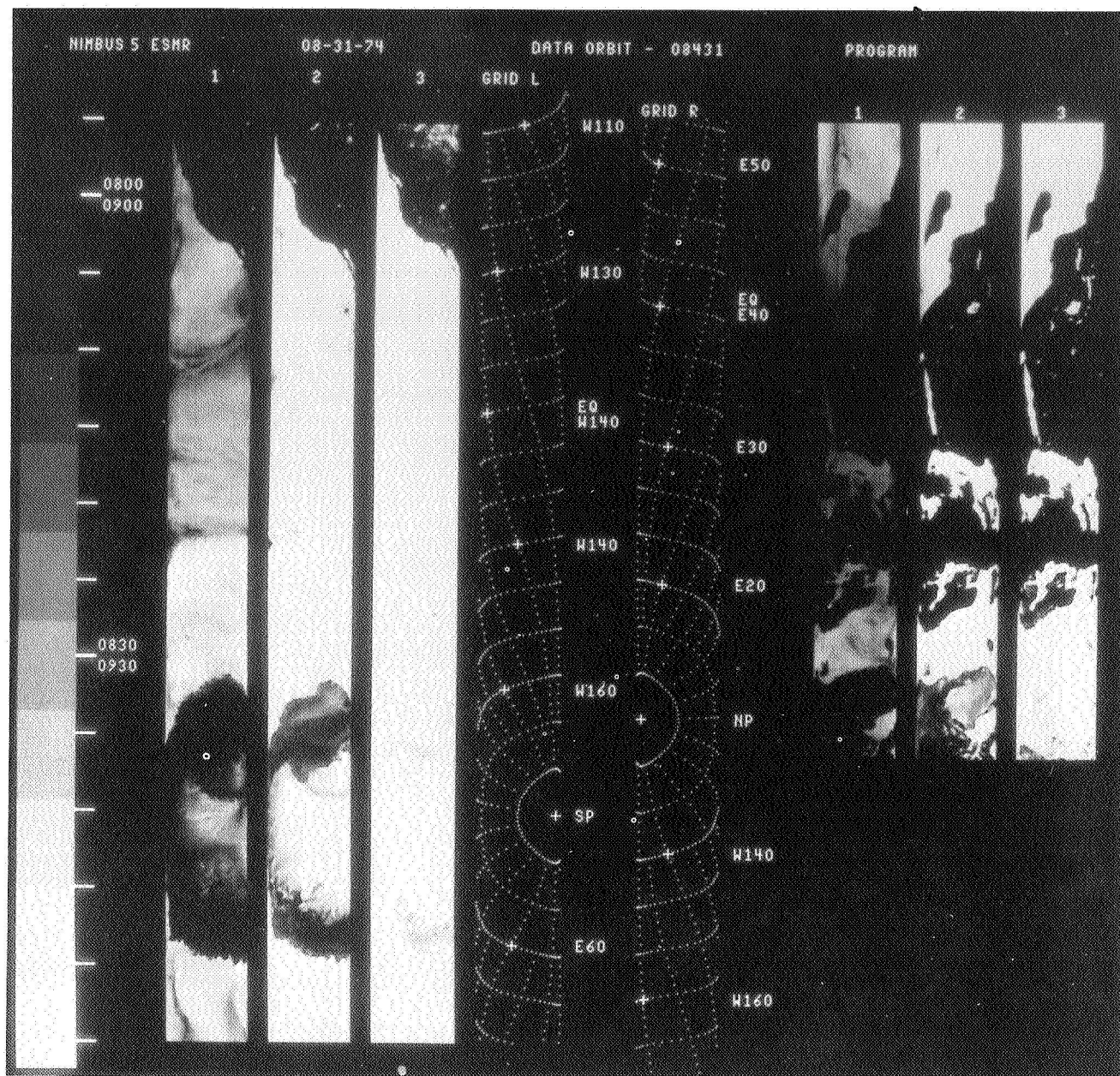


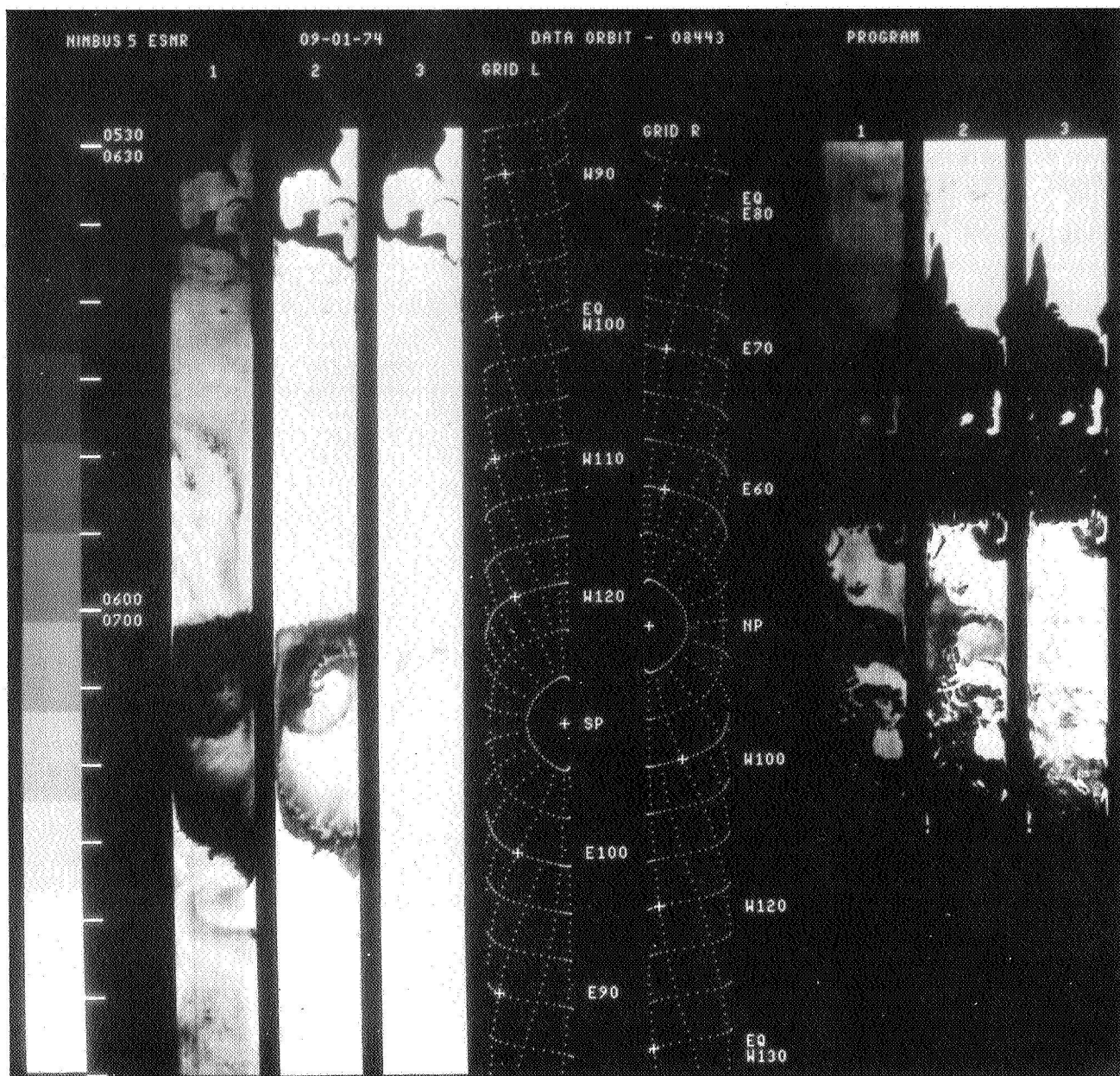




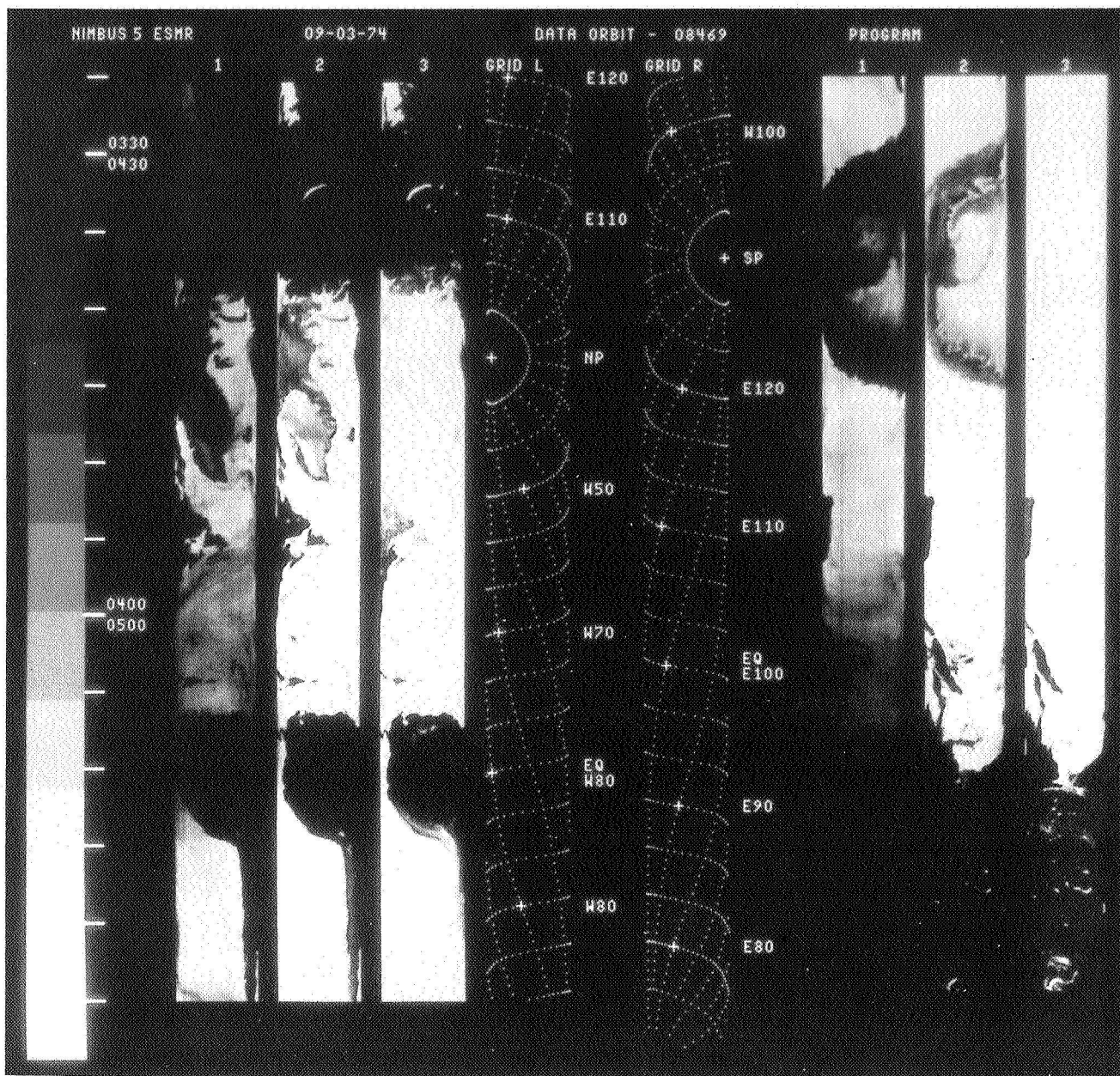


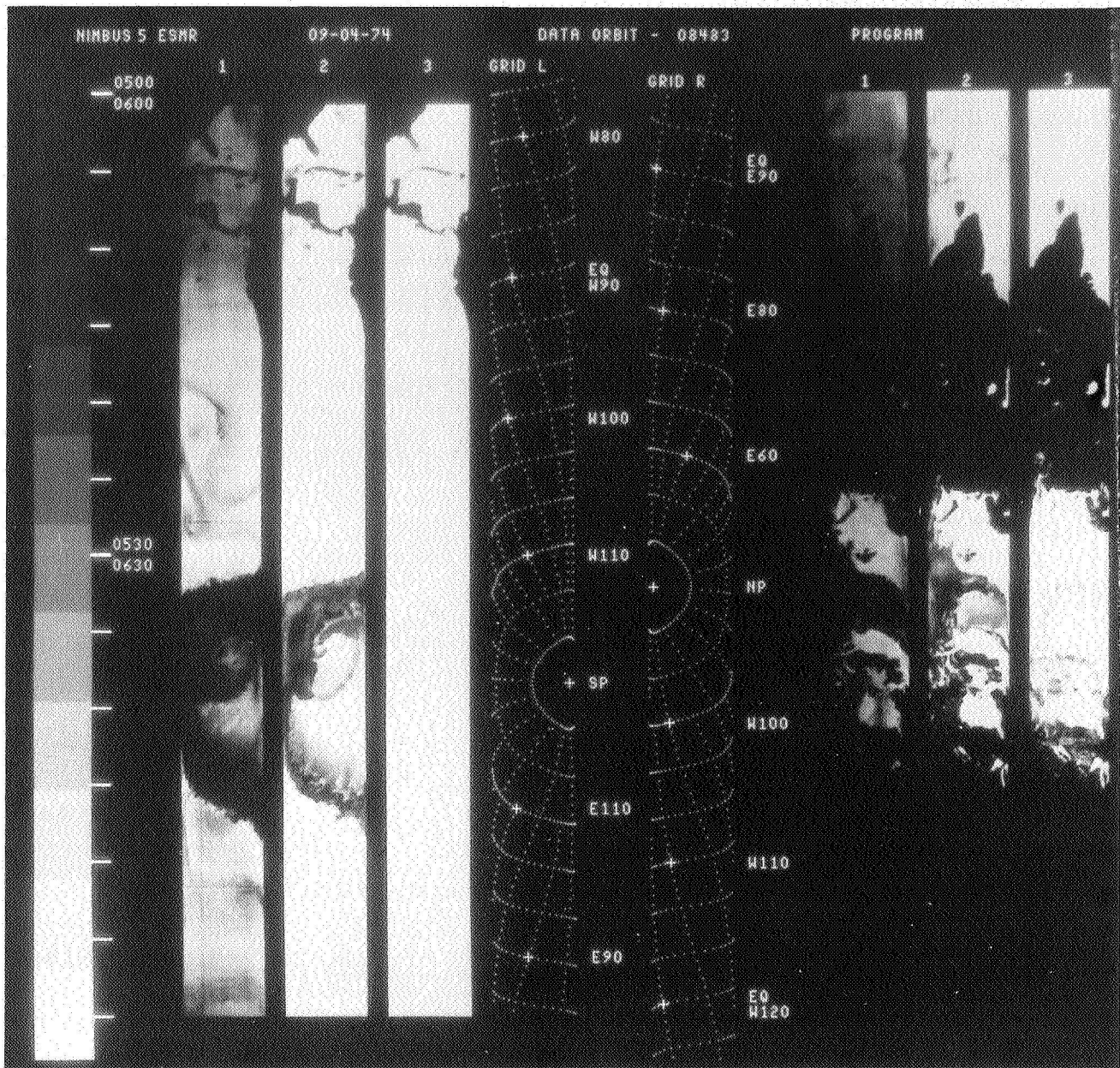


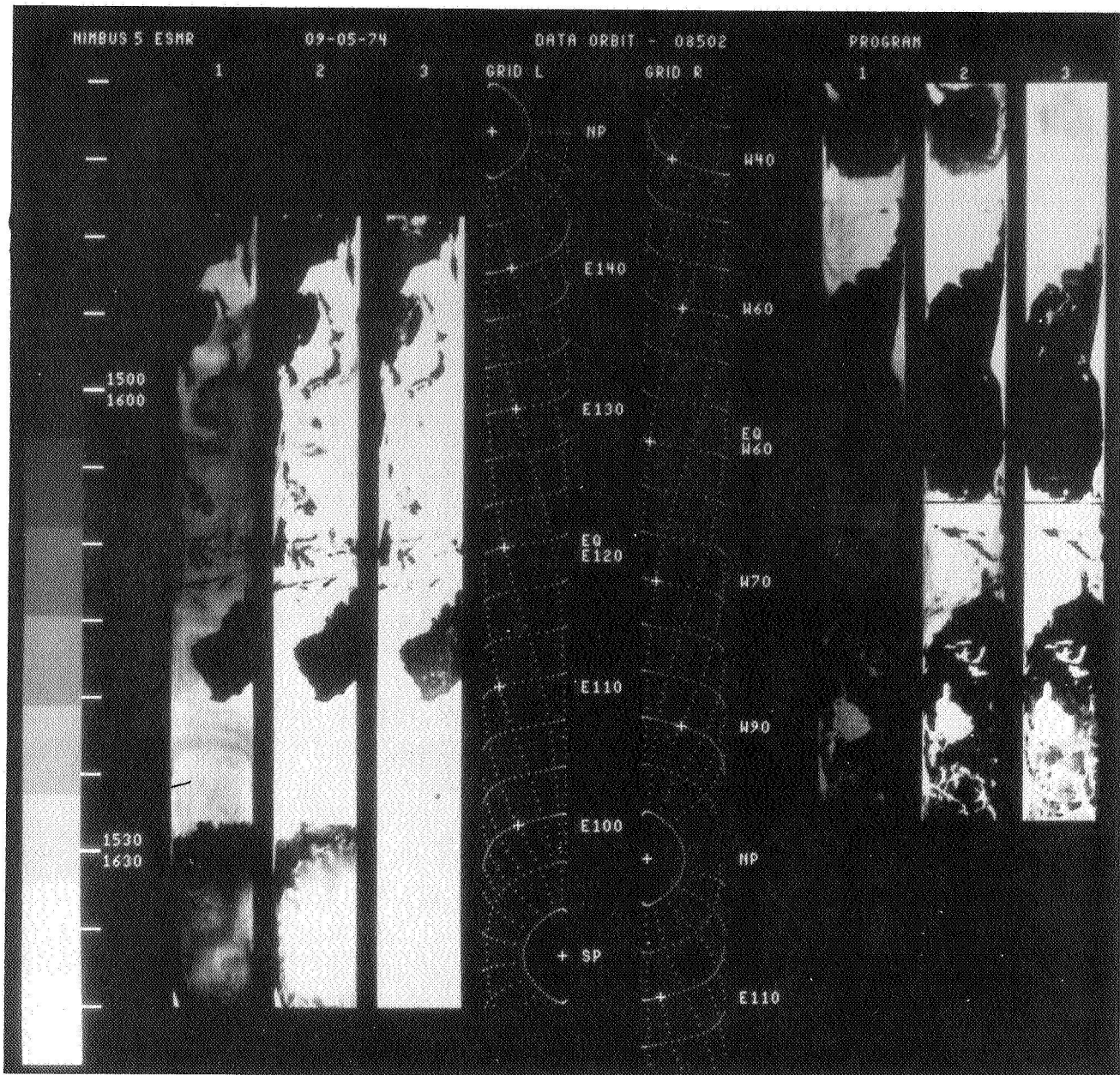


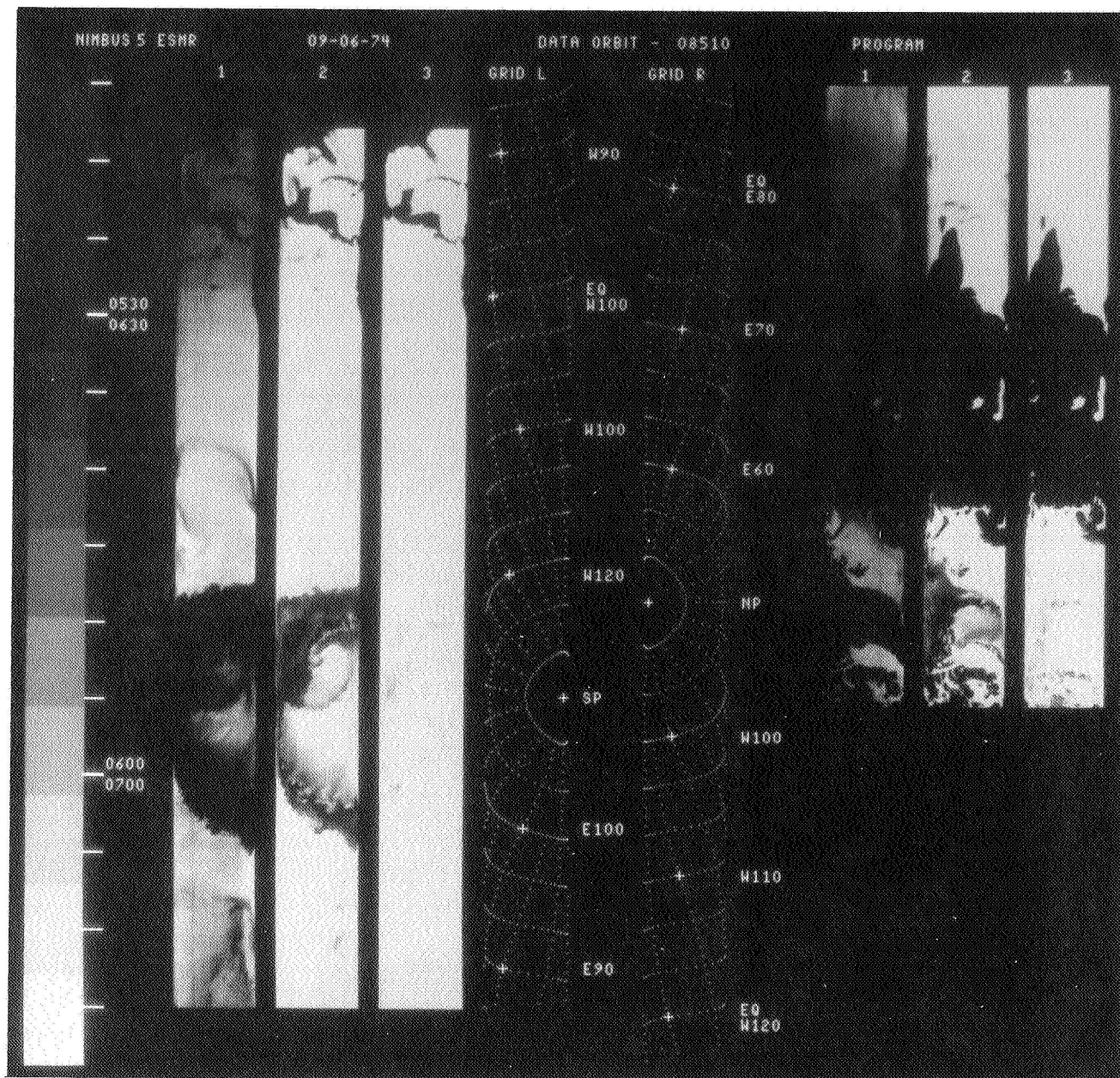


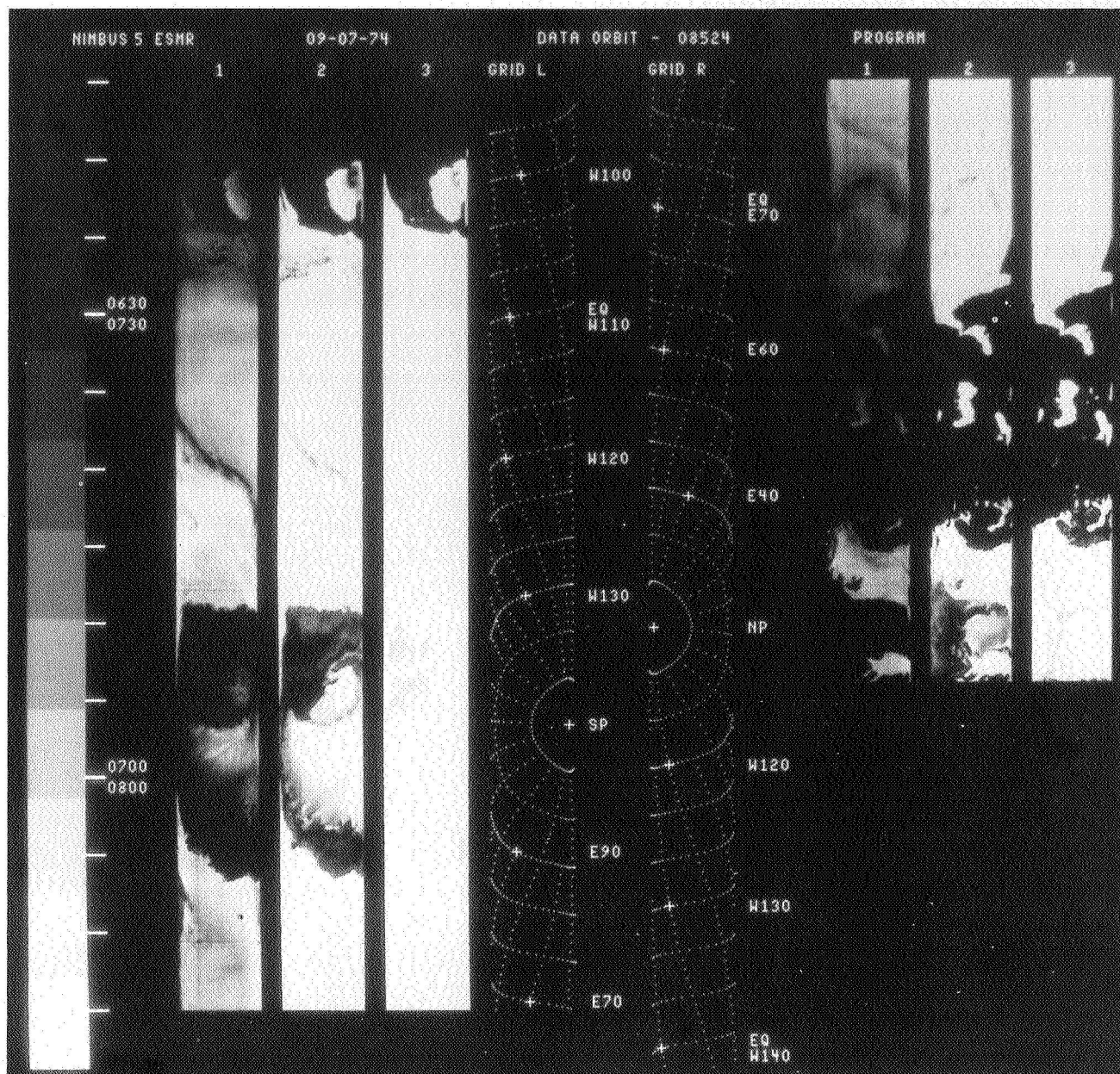


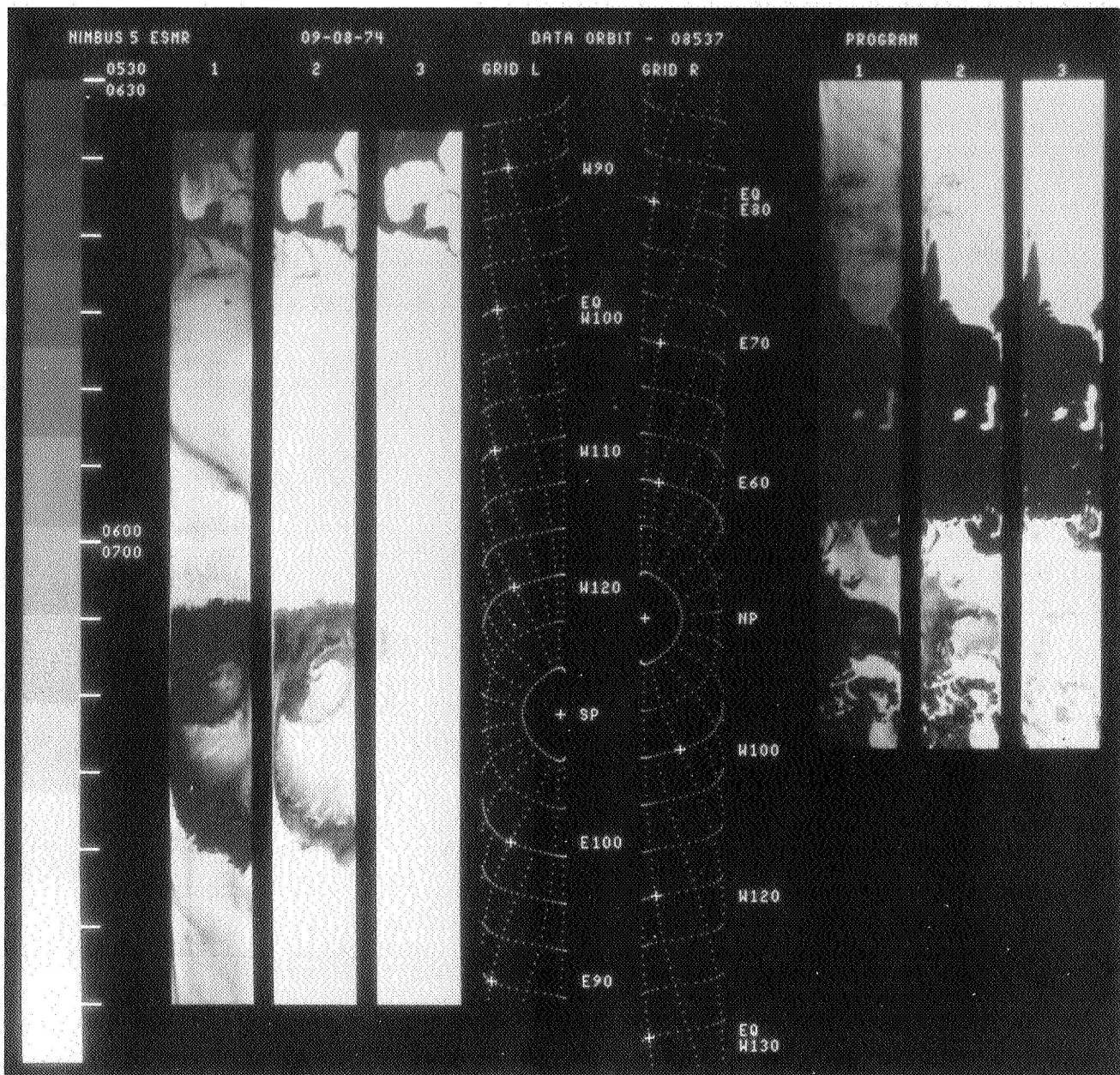


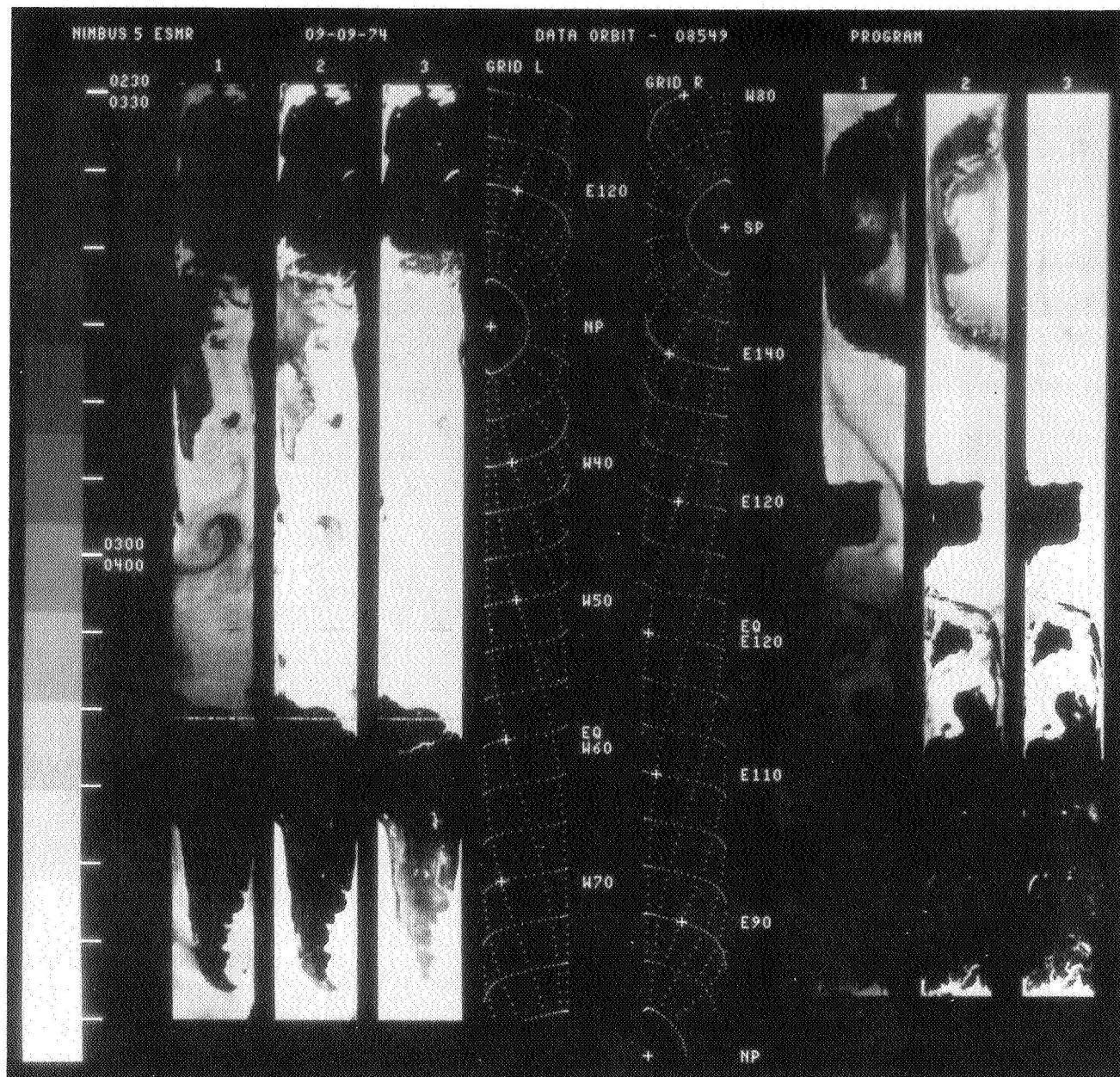


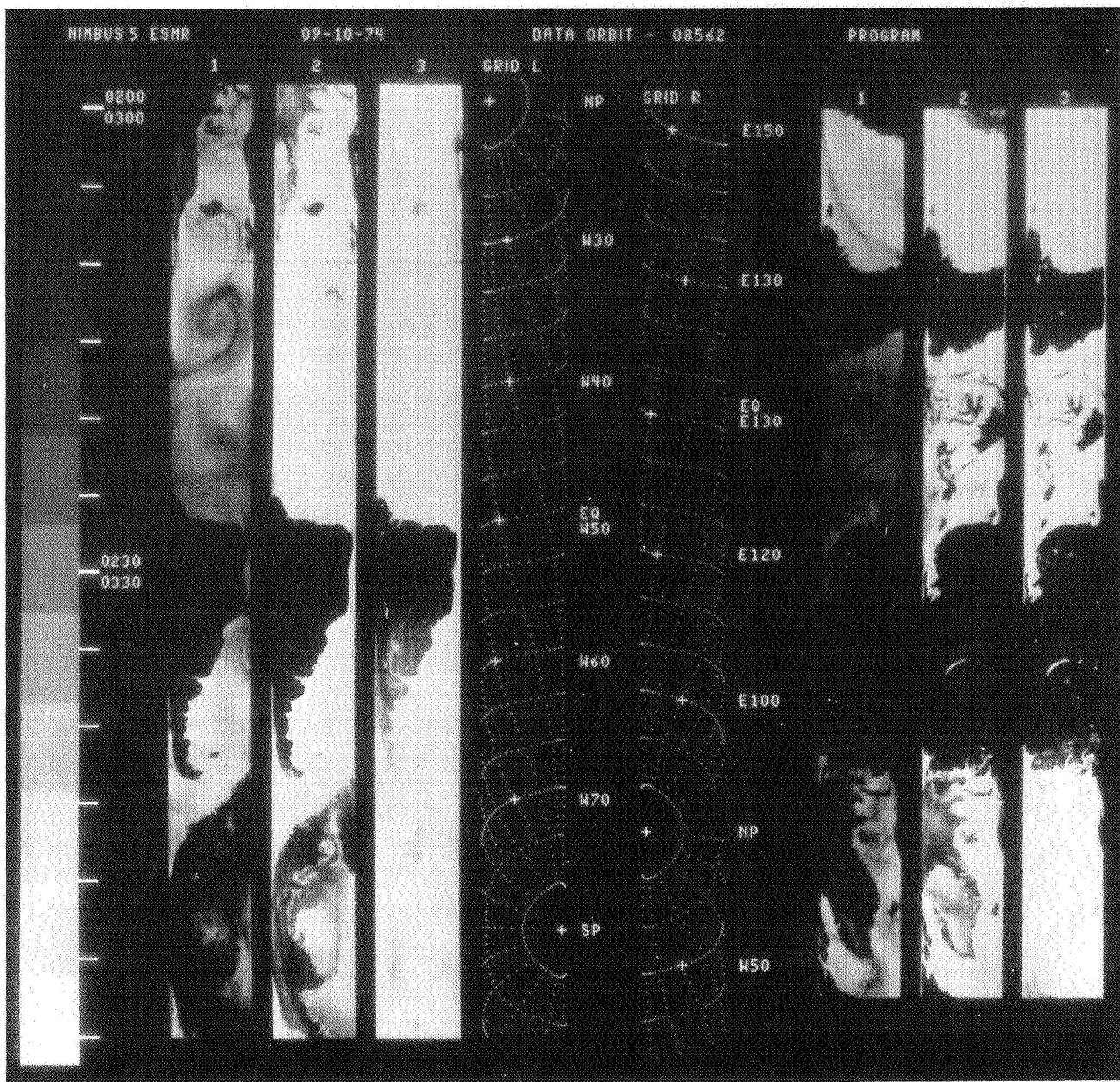


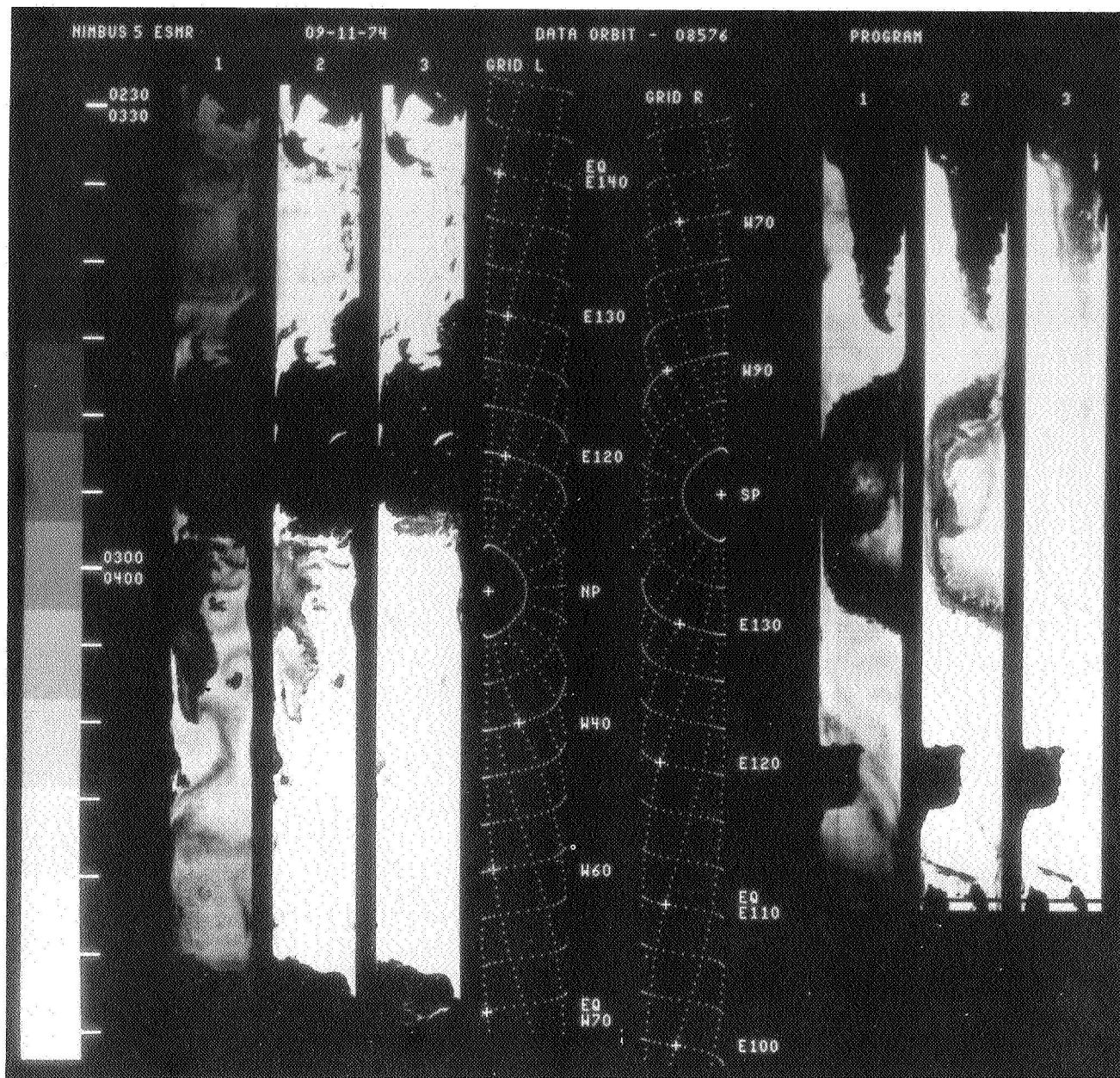


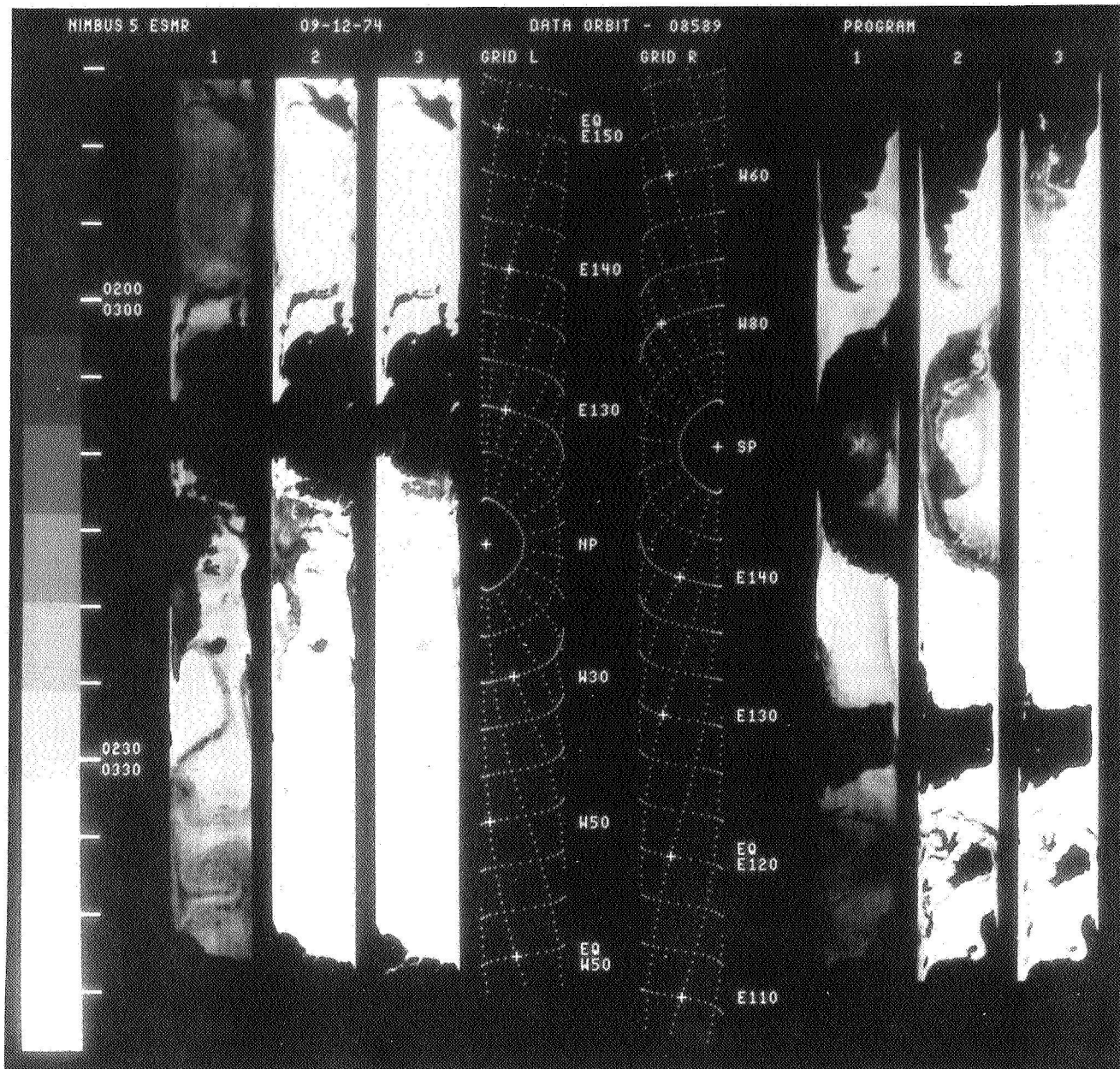


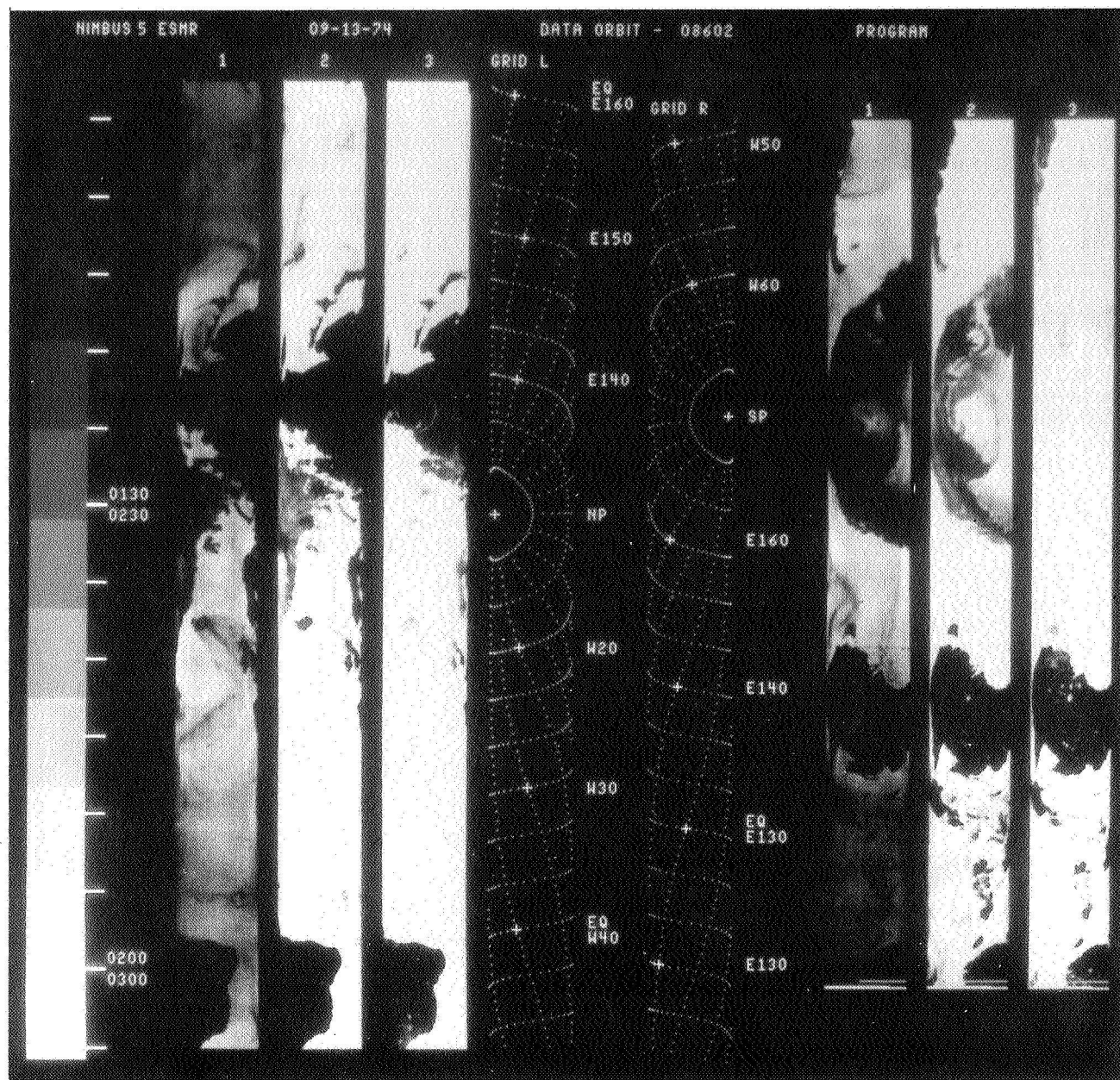


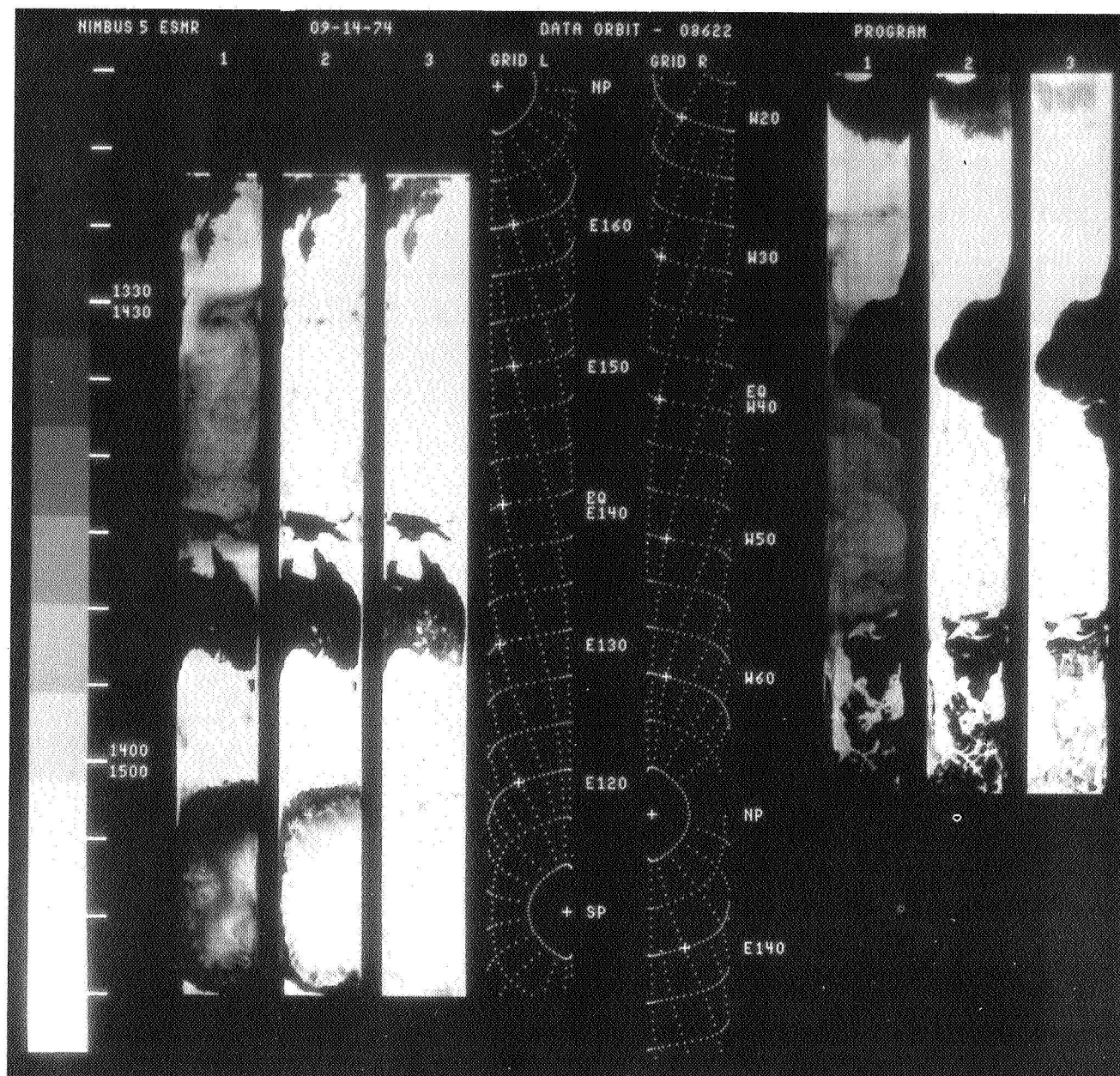


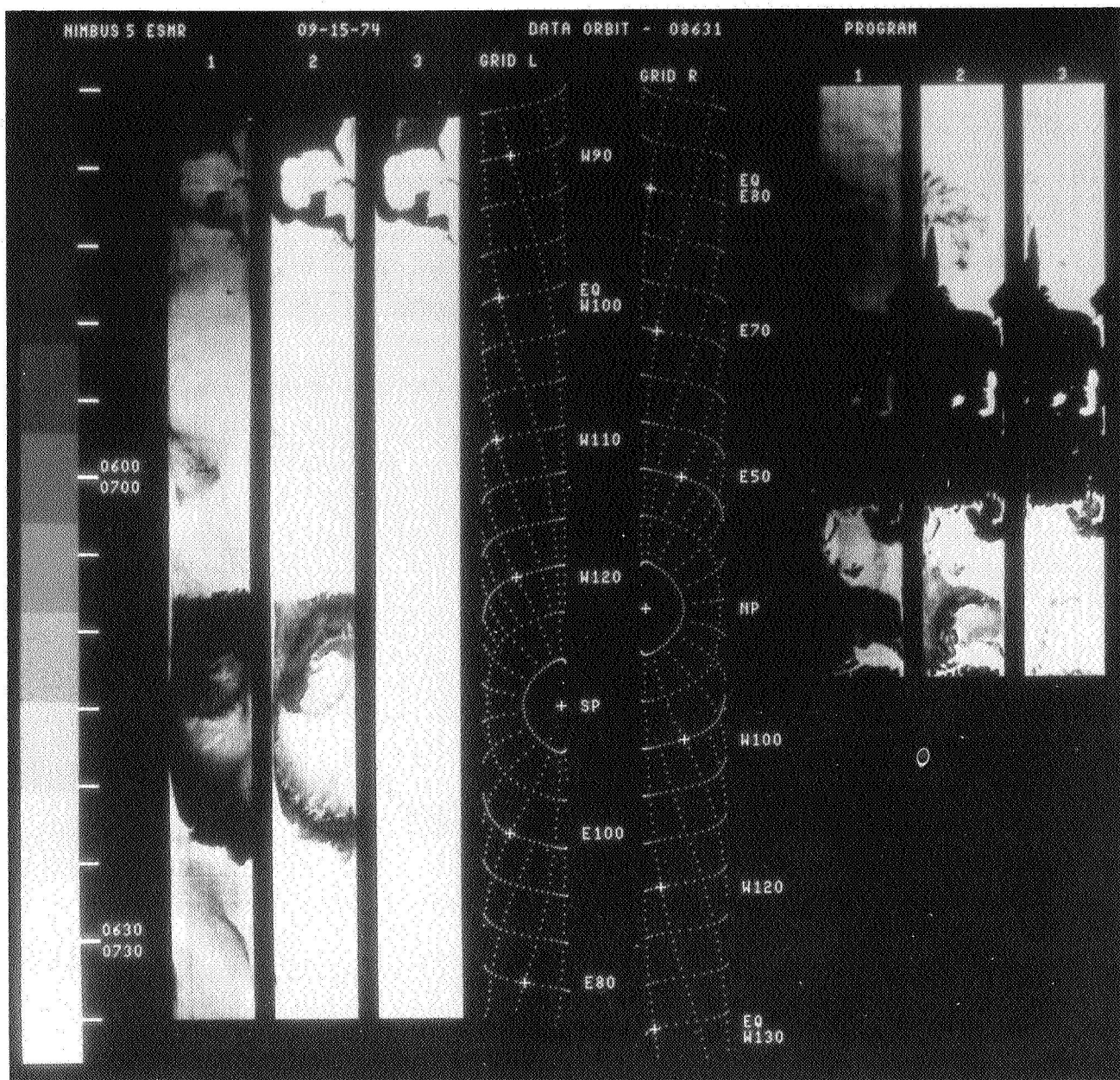


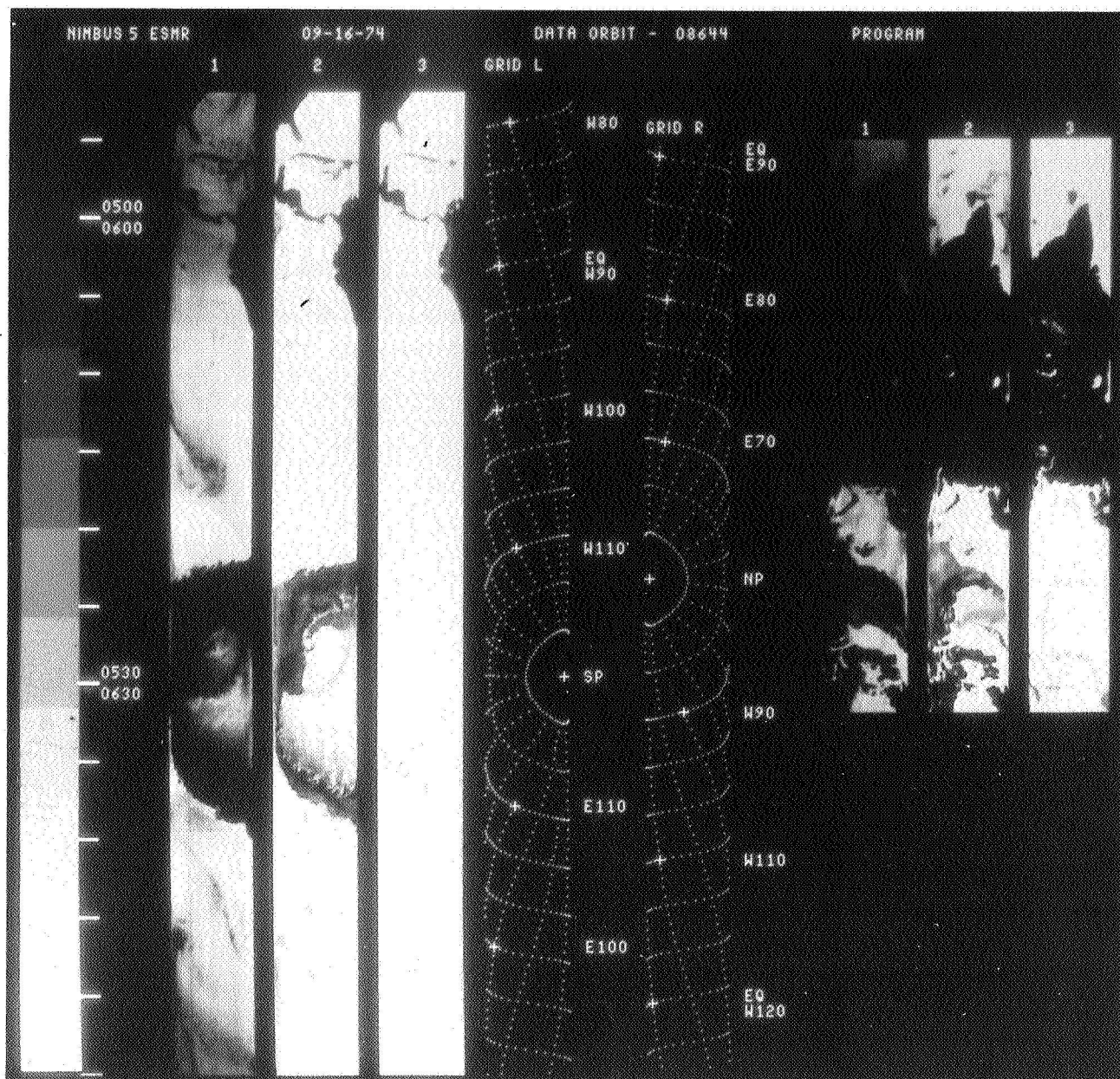


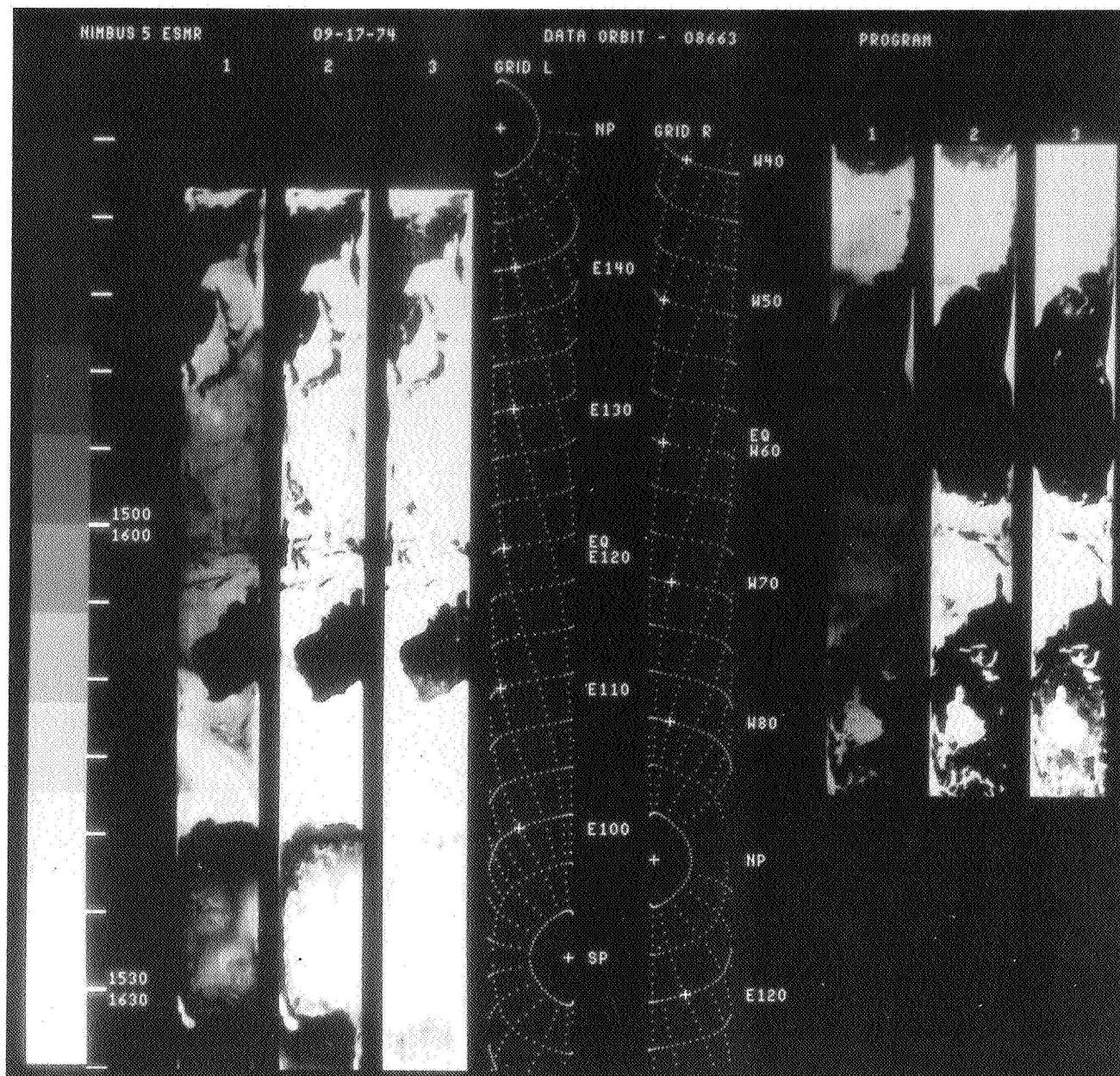


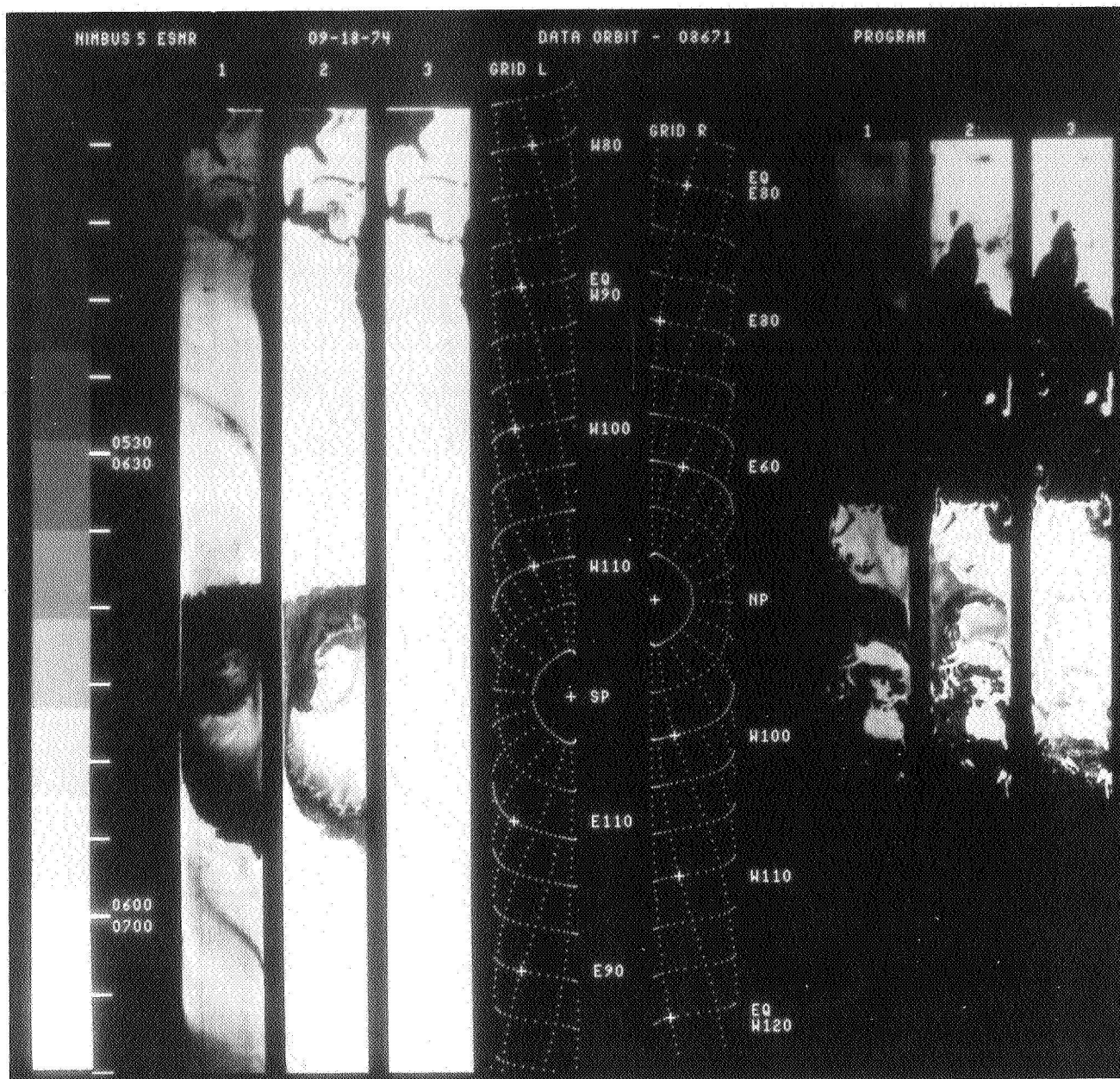


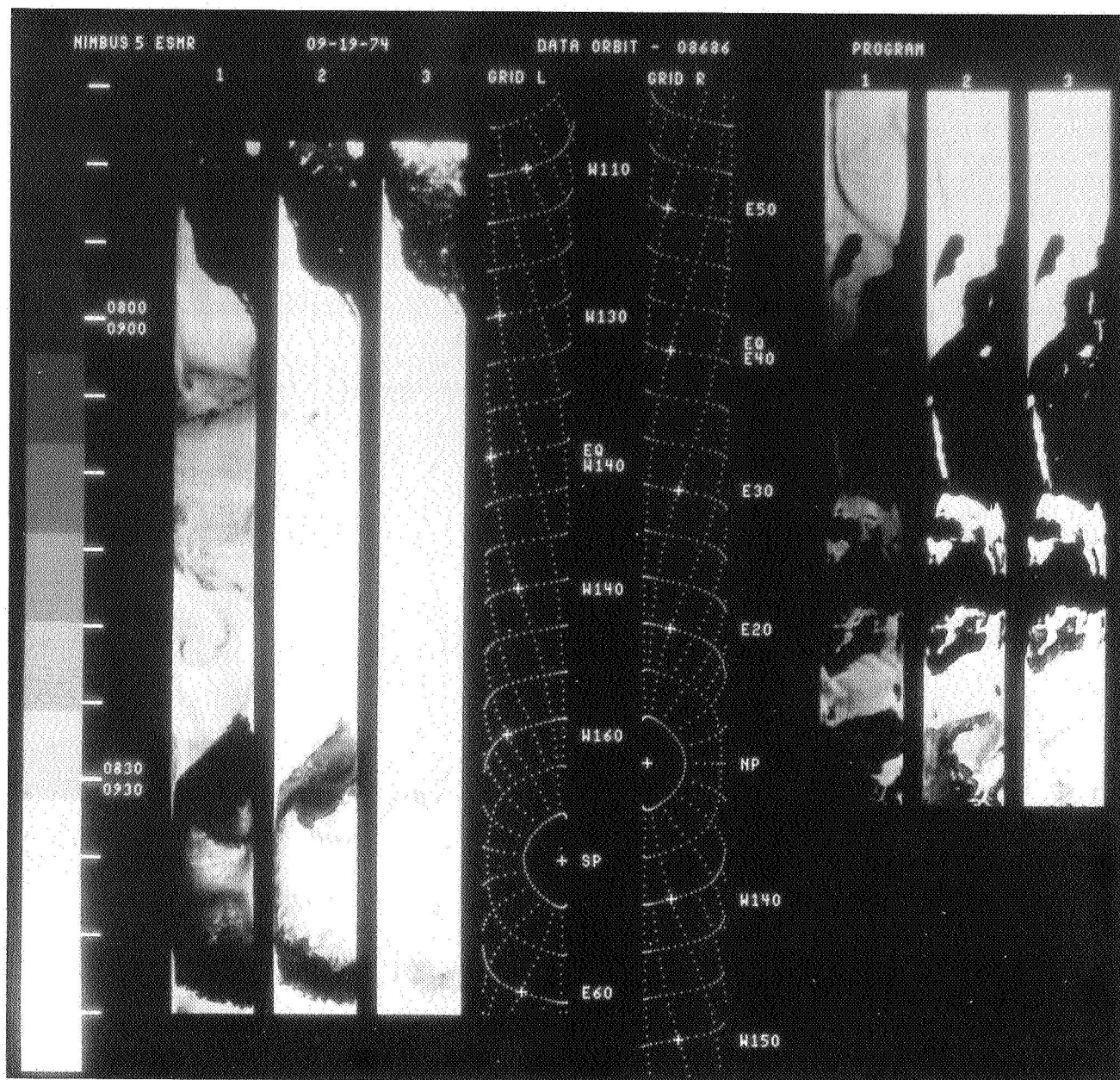


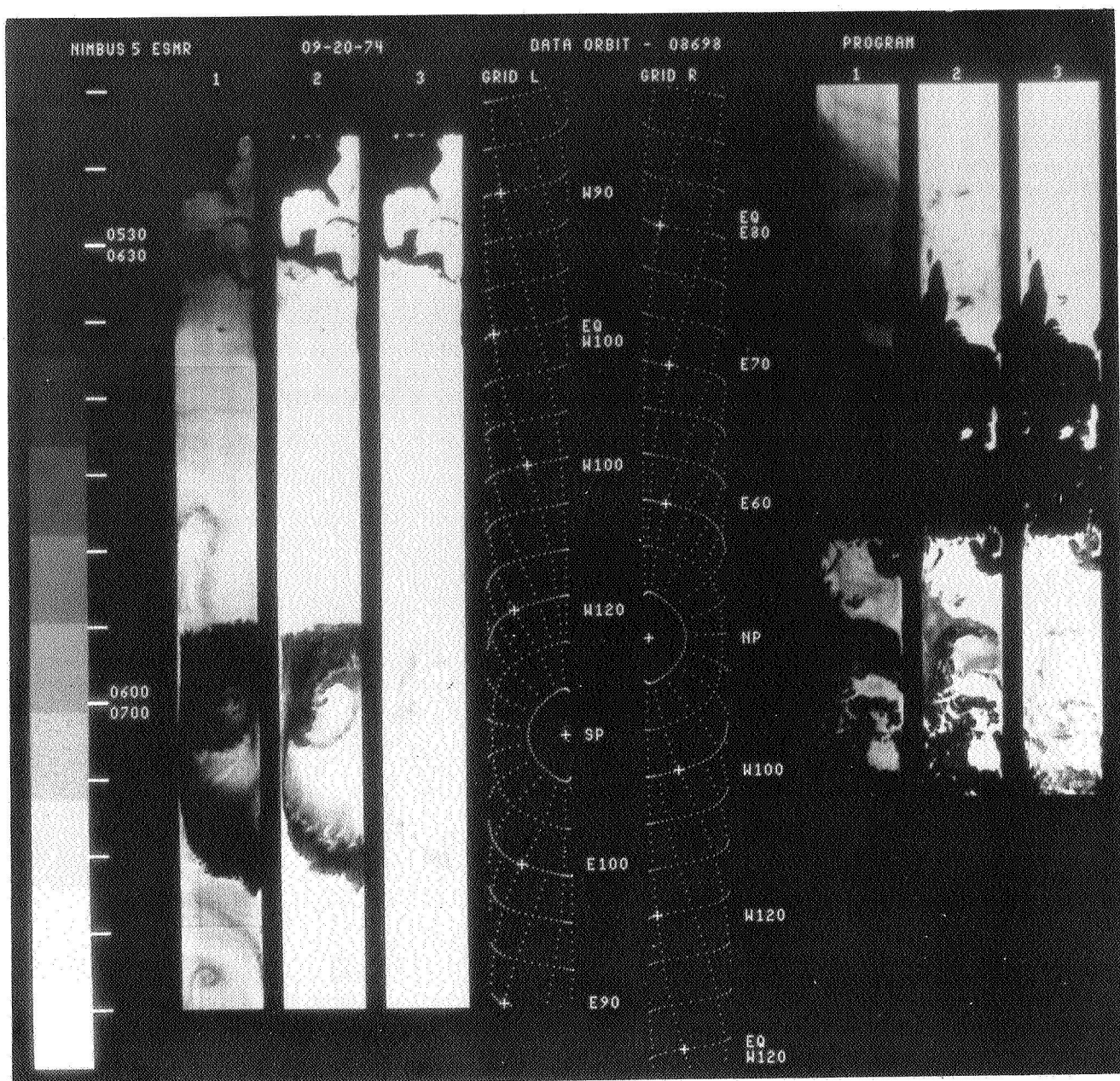


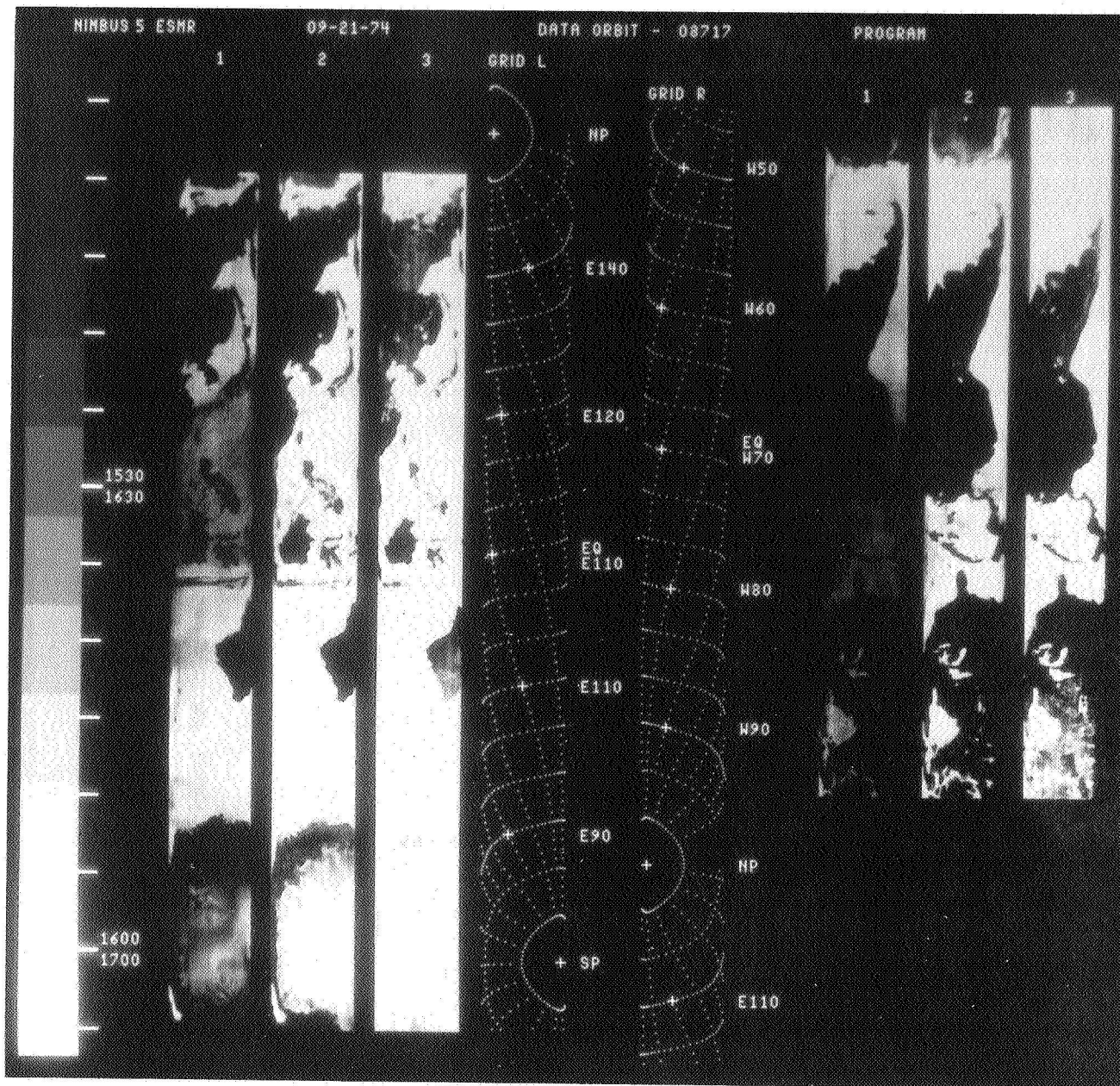


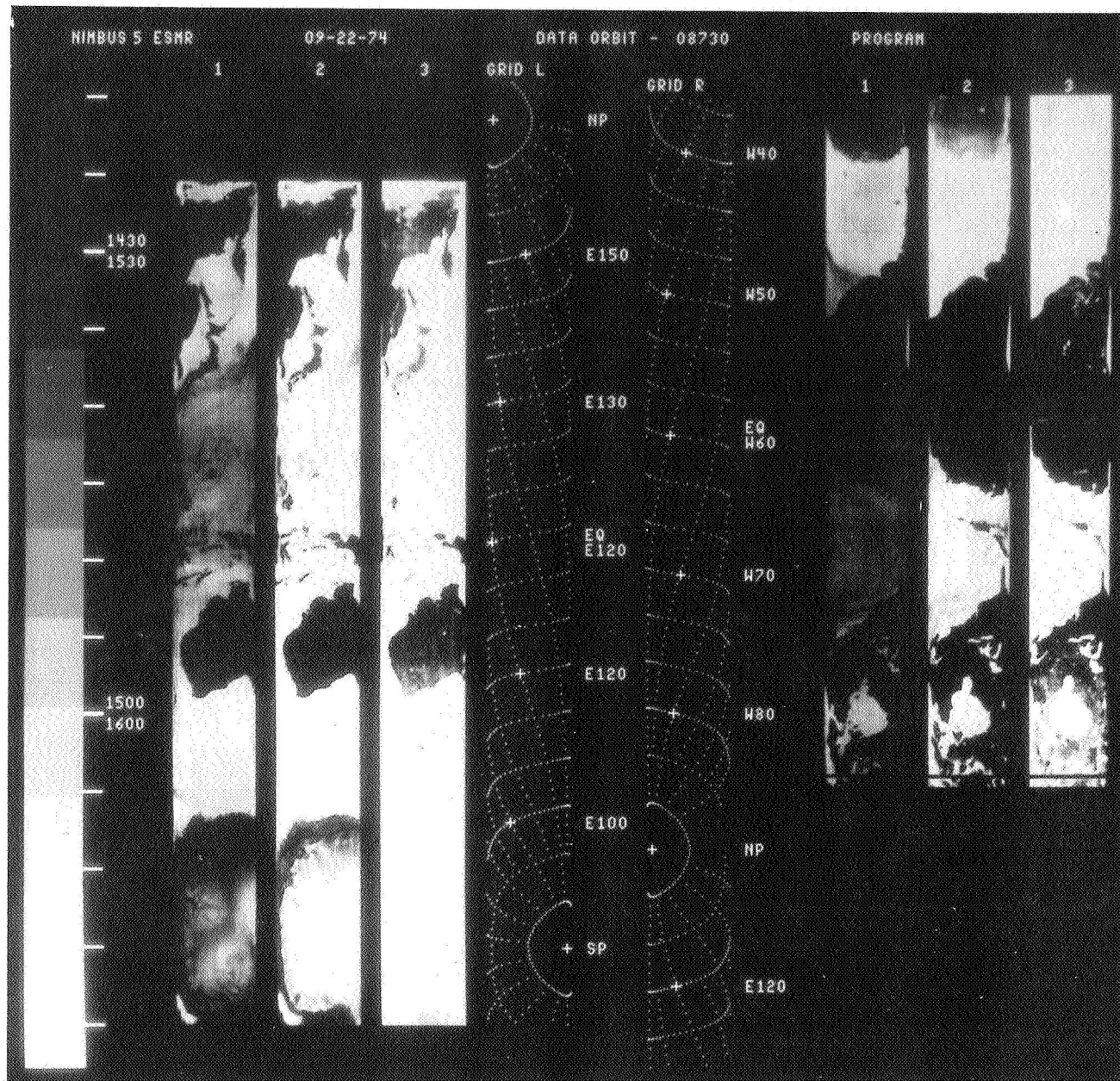


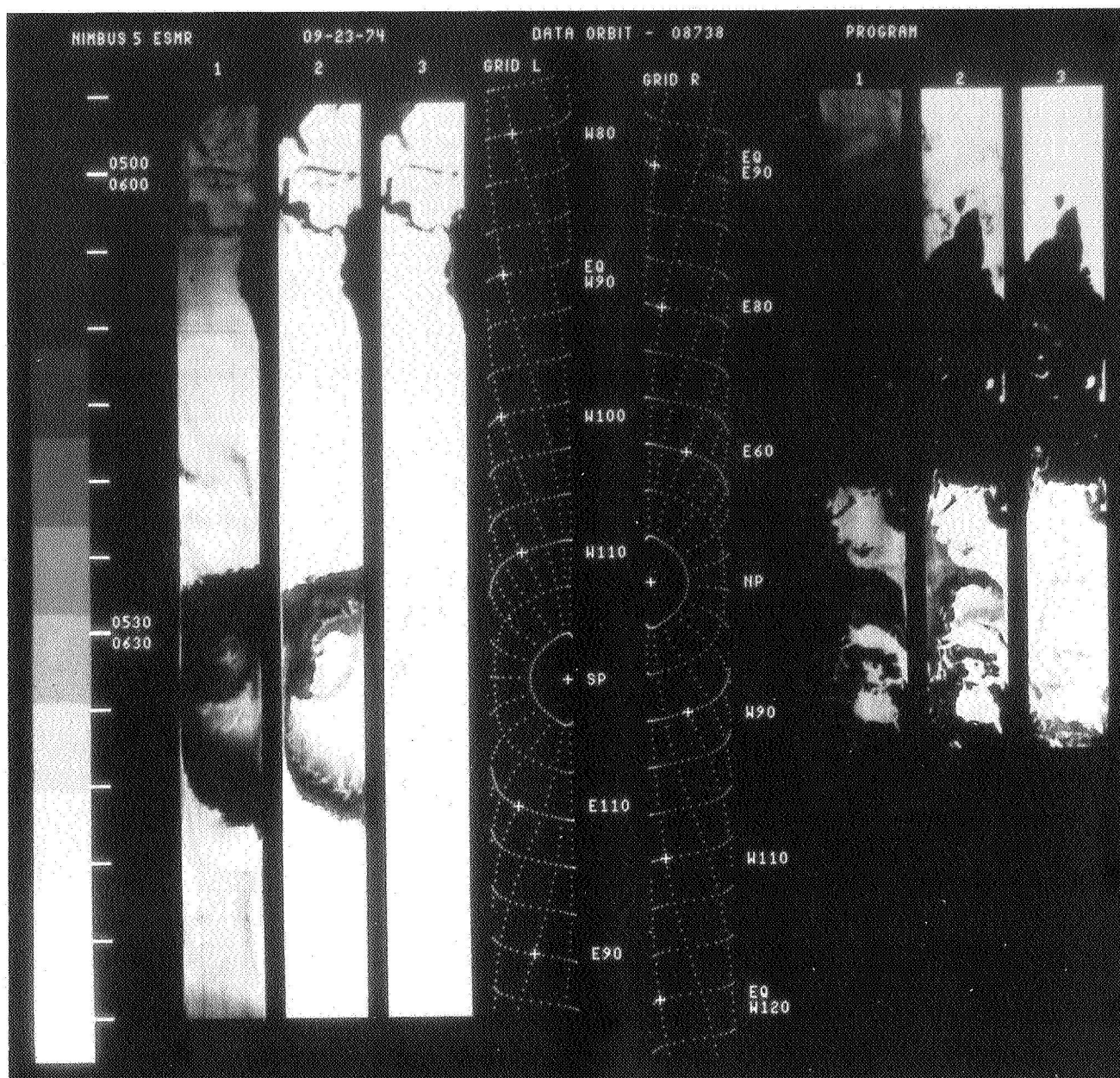












NIMBUS 5 ESHR

09-24-74

DATA ORBIT - 08752

PROGRAM

1

2

3

GRID L

GRID R

1

2

3

0600
0700

0630
0730

W100

E9
E70

E9
W110

E60

W110

E50

W130

NP

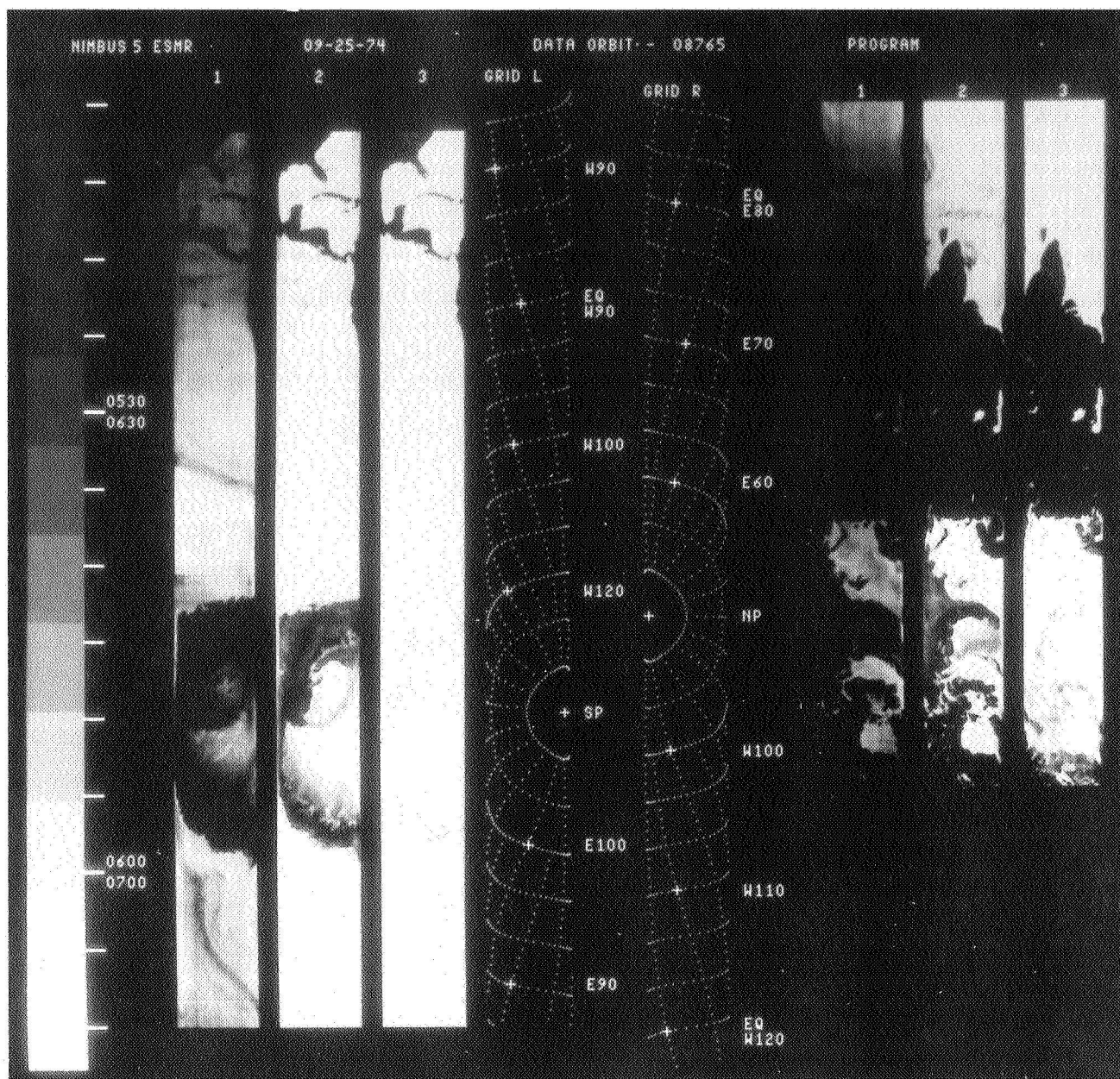
SP

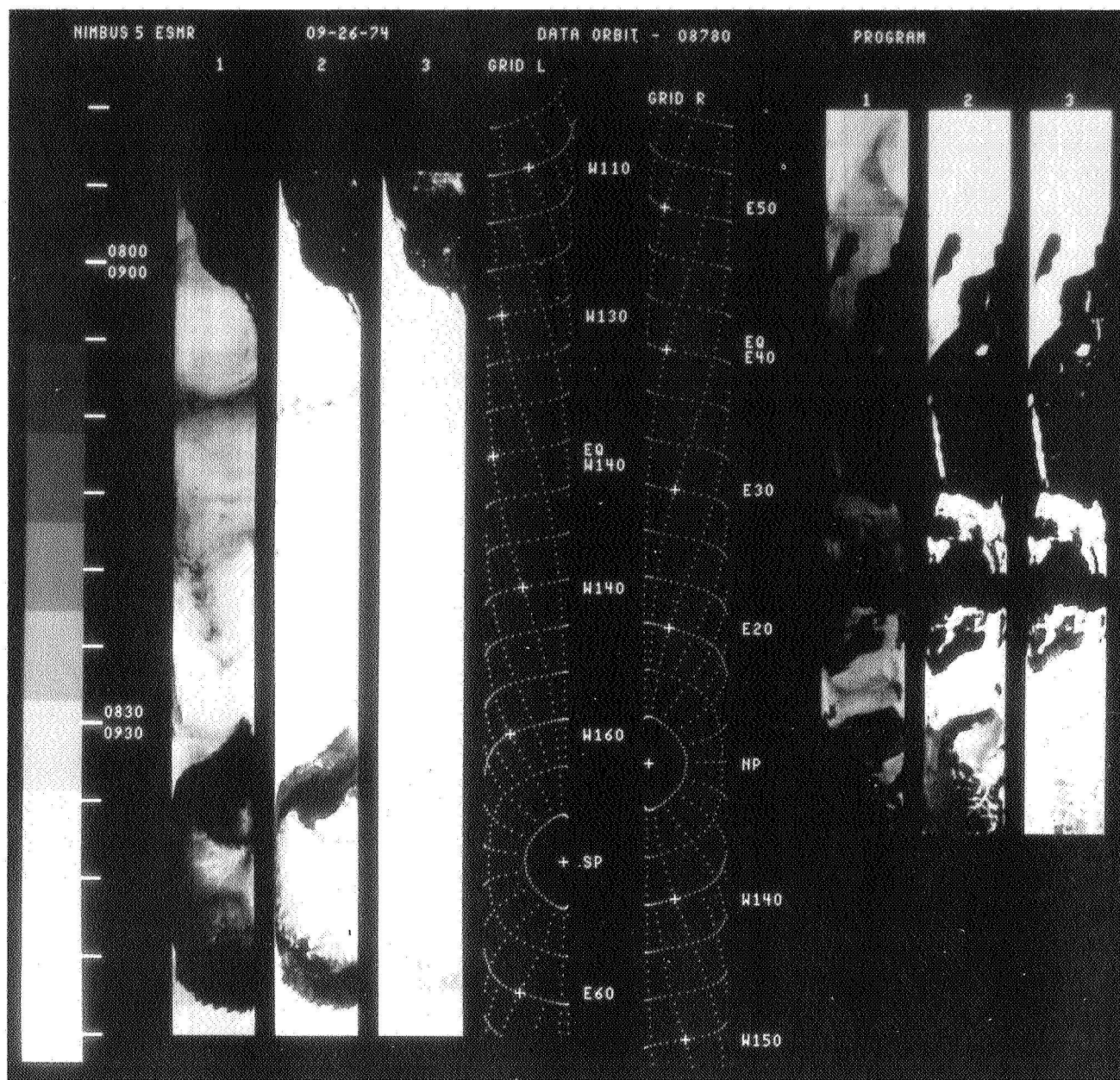
W110

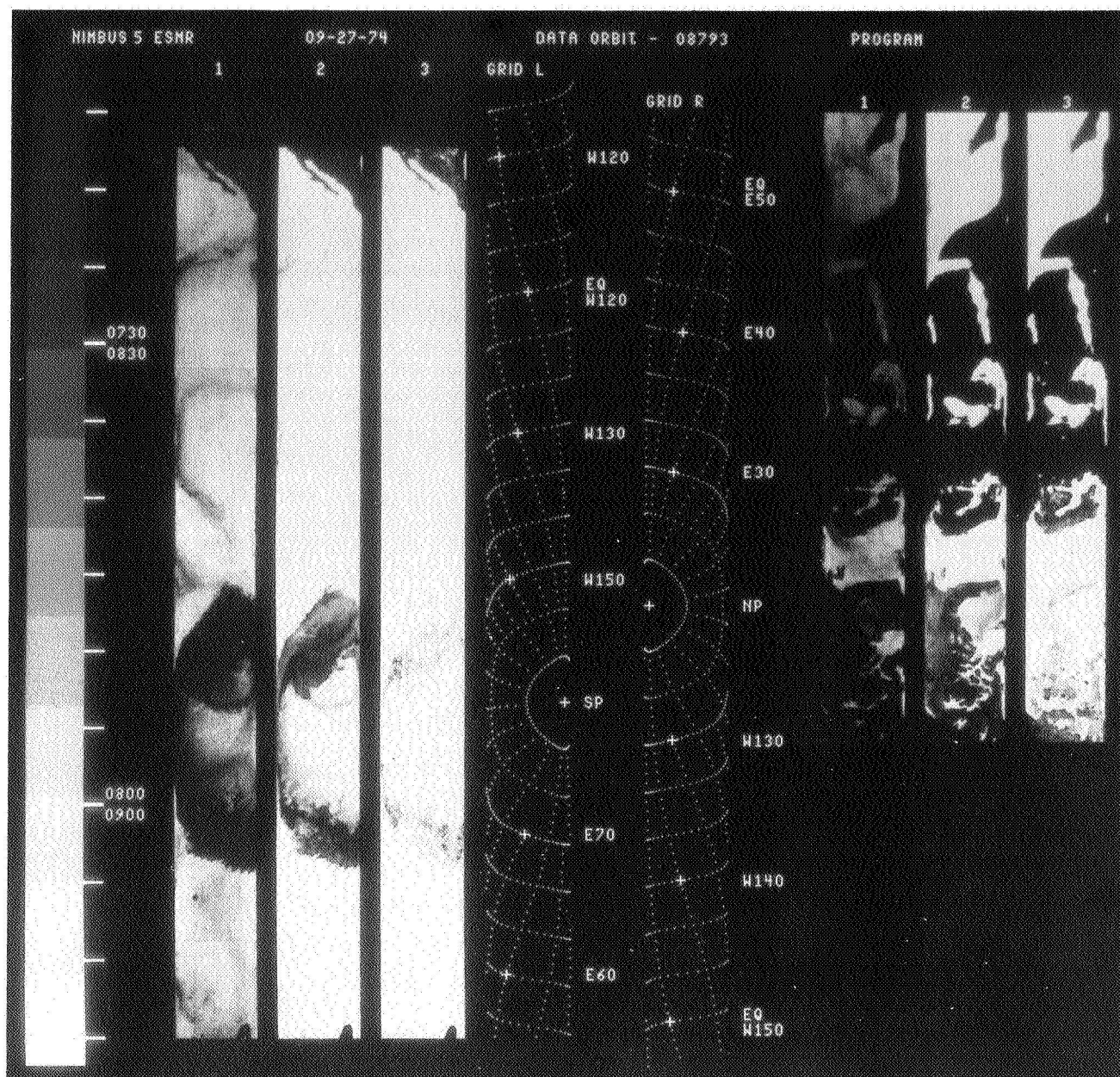
E90

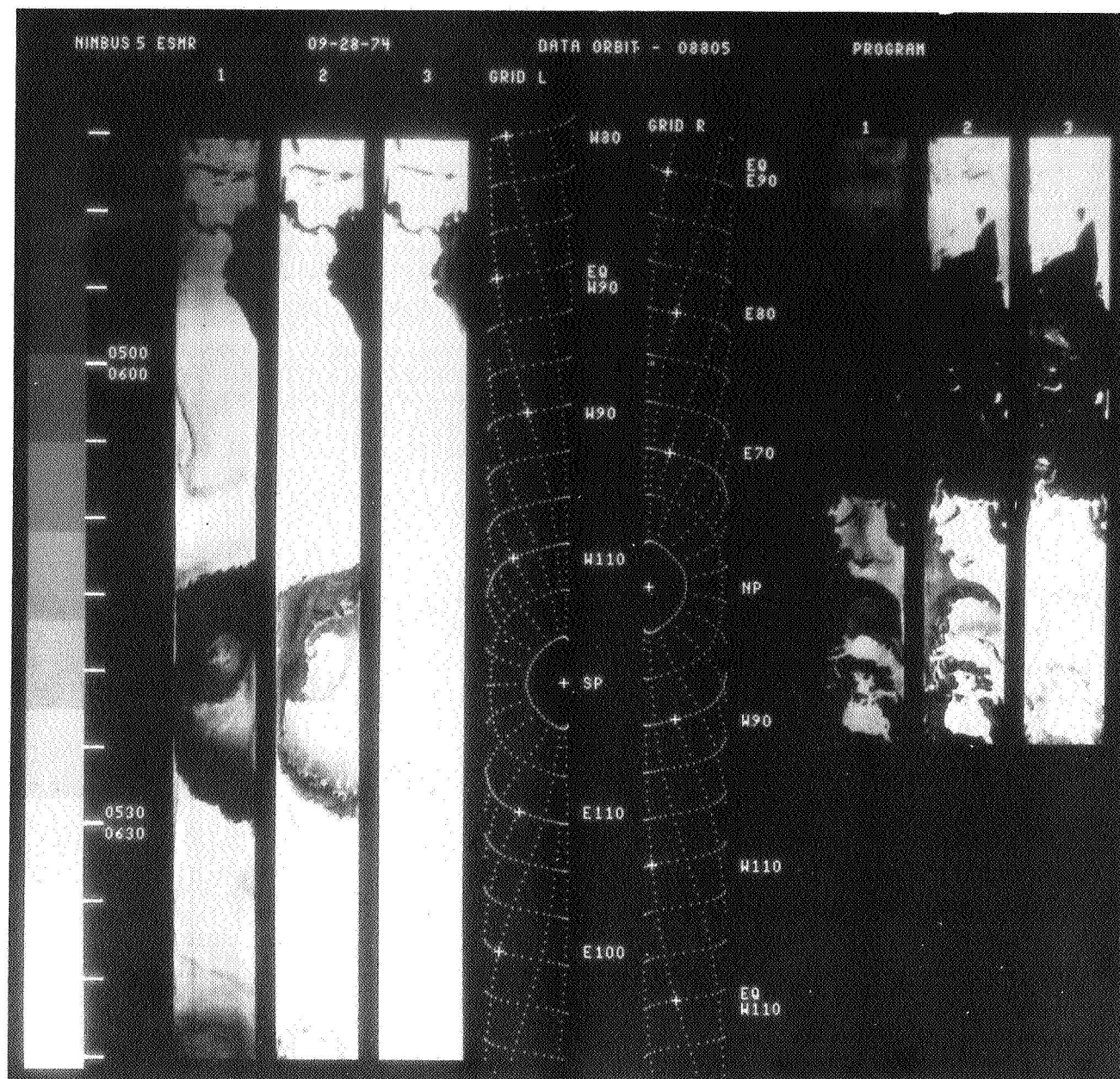
W120

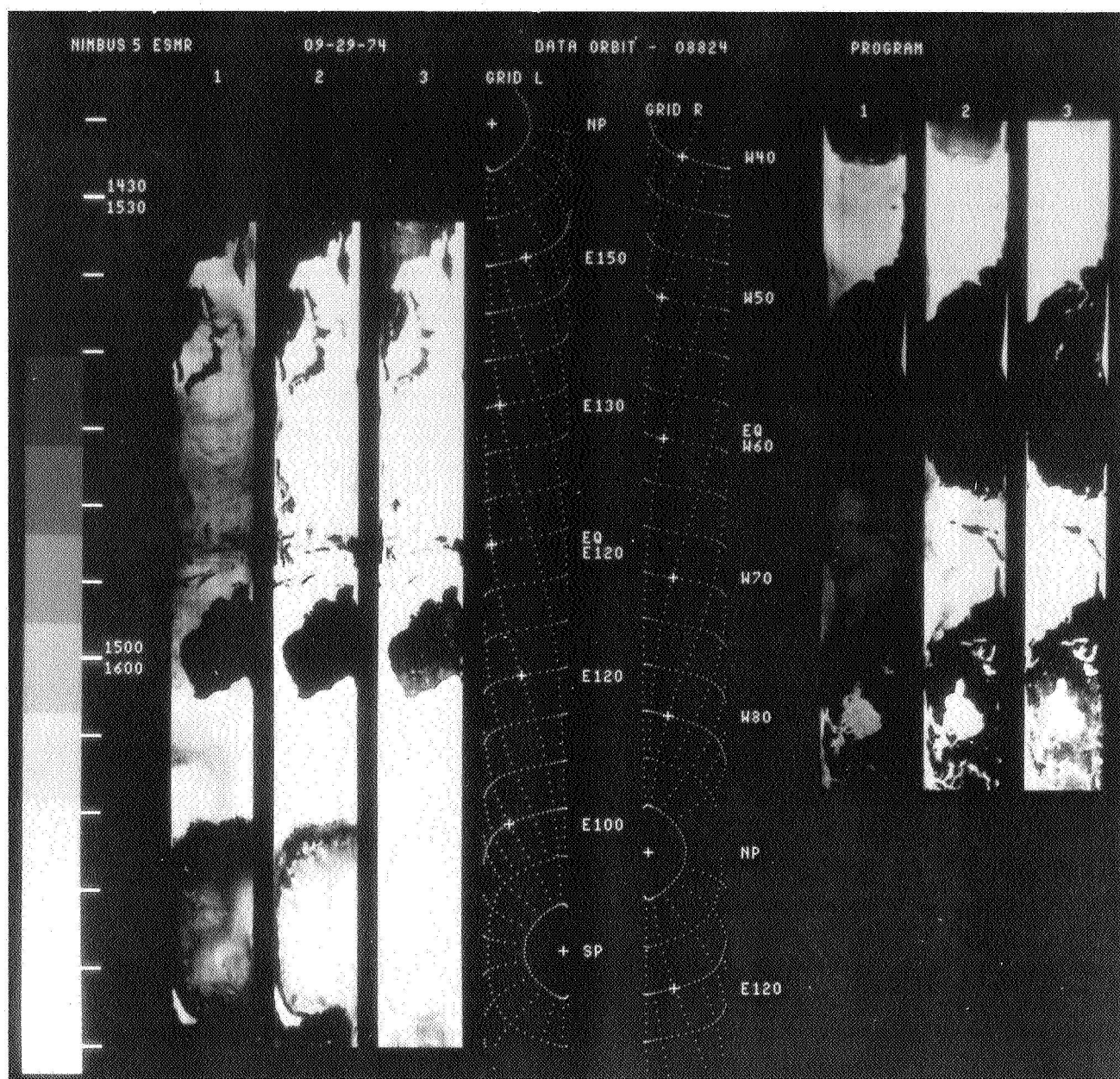
E80

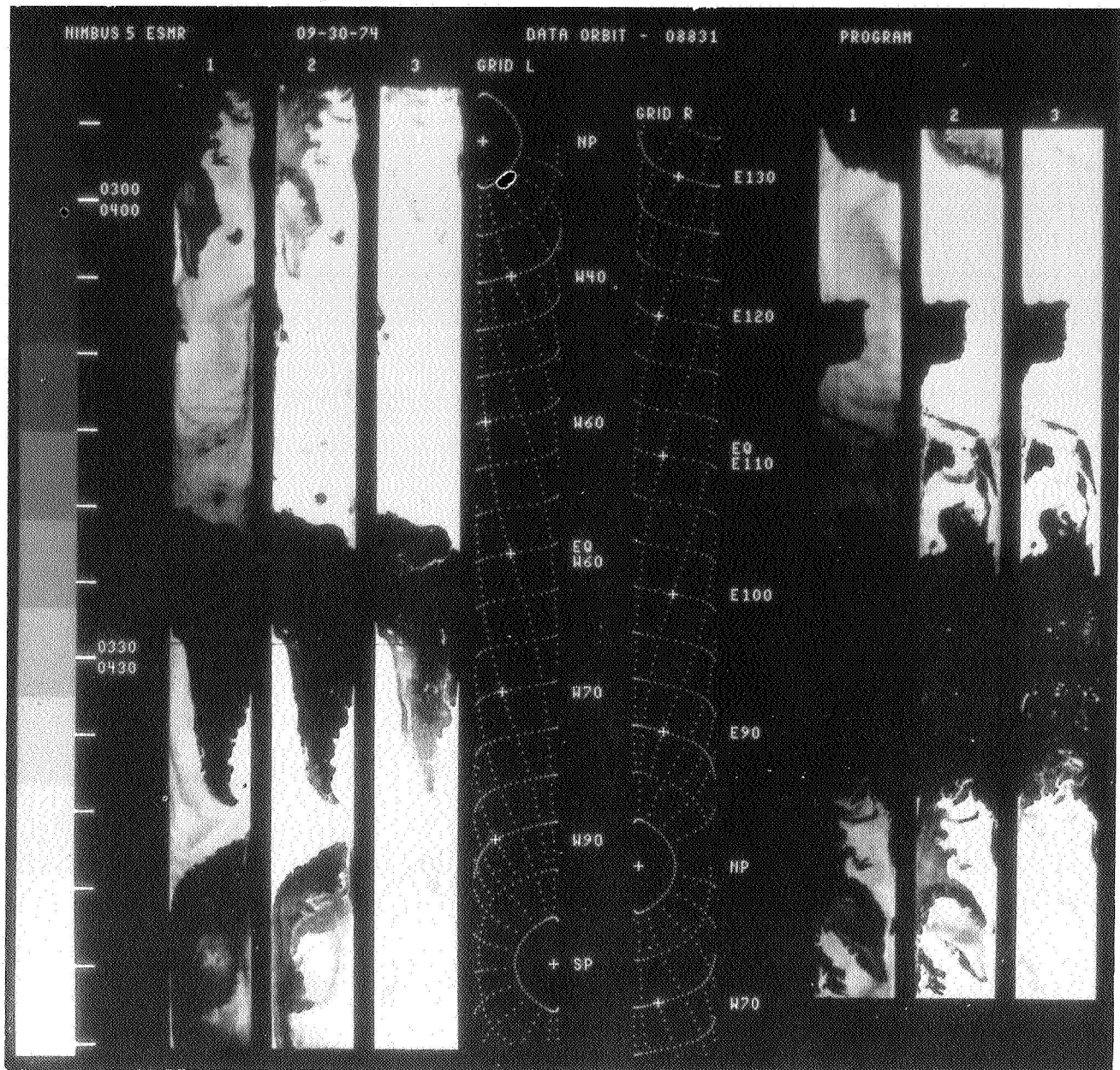












SECTION 4

TEMPERATURE HUMIDITY INFRARED RADIOMETER MONTAGES

This section pictorially documents the data from the Temperature Humidity Infrared Radiometer subsystem carried on the Nimbus 5 Meteorological Satellite. Section 4.1 contains all nighttime THIR 11.5 and 6.7 micrometer montages and Section 4.2 contains all daytime THIR 11.5 and 6.7 micrometer montages, arranged in chronological order. Key latitudes can be read from the superposed grids. Grid points are identified where each swath crosses 60°N, 30°N, EQUATOR, 30°S, and 60°S.

Vellum Location Guide overlays, attached to the back of this document, may be used for general orientation with the data presented in each THIR montage. Proper alignment of the overlay grid is accomplished by matching the grid indices on the equator with the two "T" marks on each montage.

Each THIR montage is provided with a time scale to determine the Greenwich Mean Time limits required to order processed THIR grid print maps (see page 38, The Nimbus 5 User's Guide). The time scale is used to determine the number of minutes from ascending (daytime data) or descending (nighttime data) node time for the interval of data required. To obtain the GMT for daytime data, the measured time is to be added to the ascending node time in the northern hemisphere and subtracted from the southern hemisphere. For nighttime data, the measured time is to be subtracted from the descending node time in the northern hemisphere and added in the southern hemisphere. The ascending and descending node times are given in Table 2-2 of Section 2.

The following alternate procedure also establishes GMT limits. Knowing the latitude limits of the study area, the minutes from ascending or descending node can be directly interpolated from Table 4-1. These time values can then be added to or subtracted from node times given in Table 2-2 of Section 2.

A description of the THIR experiment and instructions for ordering THIR data may be found in The Nimbus 5 User's Guide, Section 2.

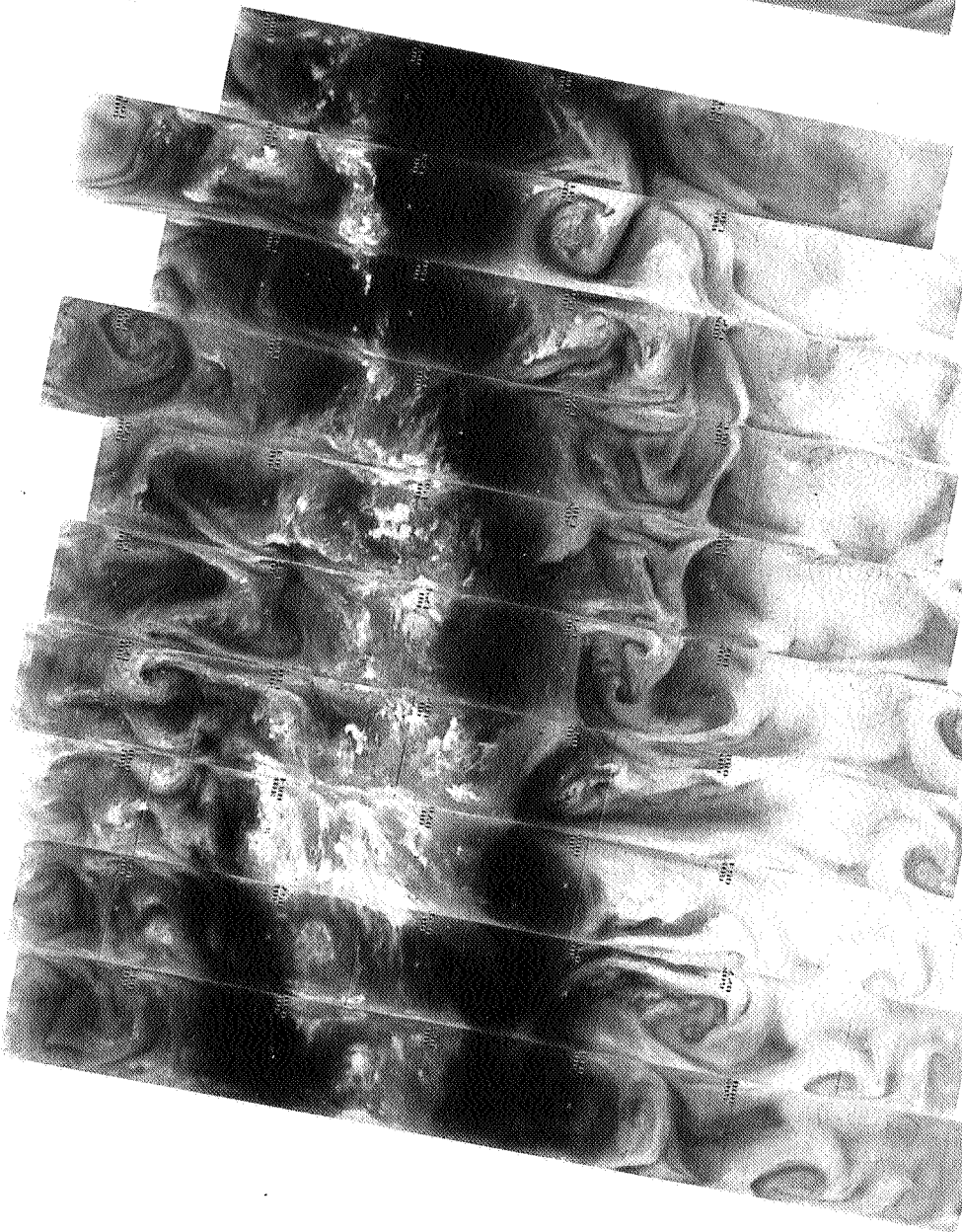
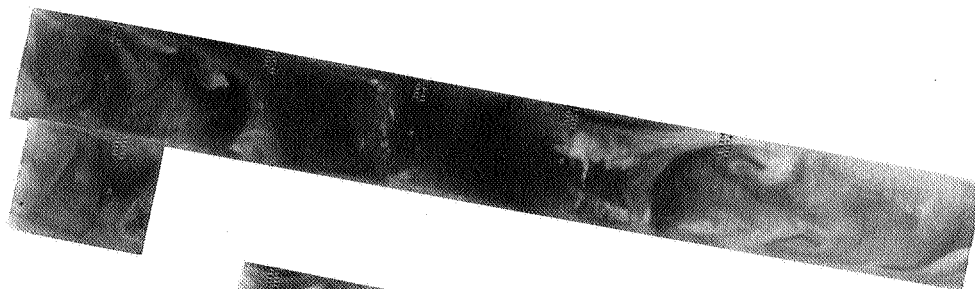
Table 4-1

Latitude Versus Minutes From
Ascending or Descending Node

Latitude from AN or DN	Minutes and Seconds from AN or DN
0	0:00
5	1:31
10	3:02
15	4:33
20	6:03
25	7:34
30	9:05
35	10:36
40	12:08
45	13:40
50	15:12
55	16:44
60	18:18
65	19:52
70	21:33
75	23:26
78	24:44
80.1	26:49
78	29:00
75	30:09
70	31:51
65	33:35

SECTION 4.1
TEMPERATURE HUMIDITY INFRARED RADIOMETER
NIGHTTIME MONTAGES

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



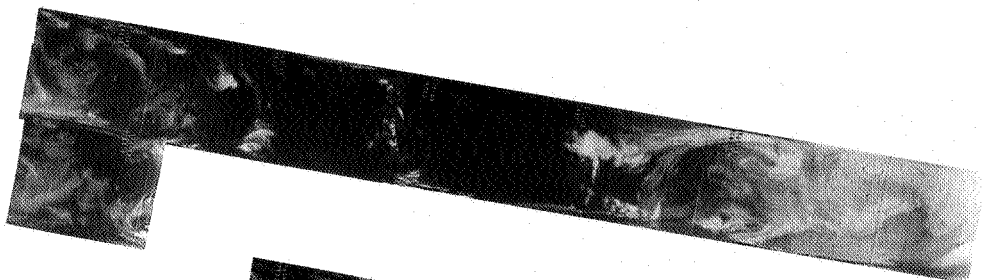
8036 8035 8034 8033 8032 8031 8030 8029 8028 8027 8026 8025 8024

1 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8024



8025



8026



8027



8028



8029



8030



8031



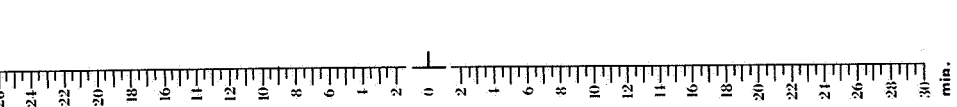
8032



8033



8034



8035

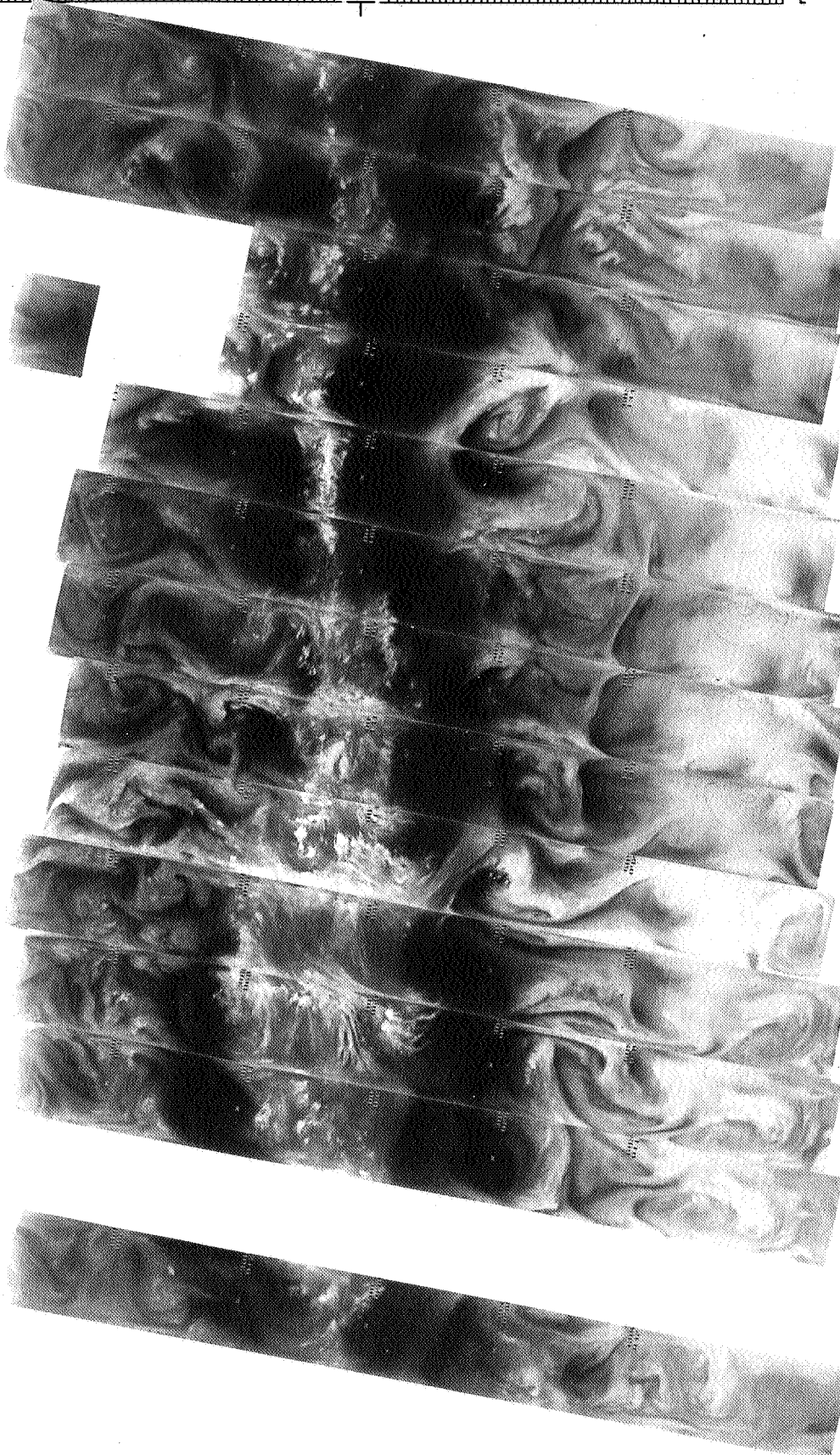
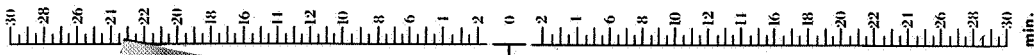


8036

1 AUGUST 1974

11.5 μ m

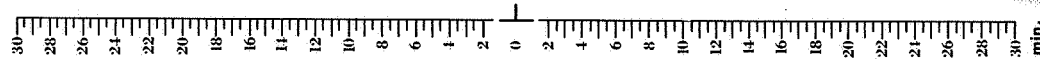
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



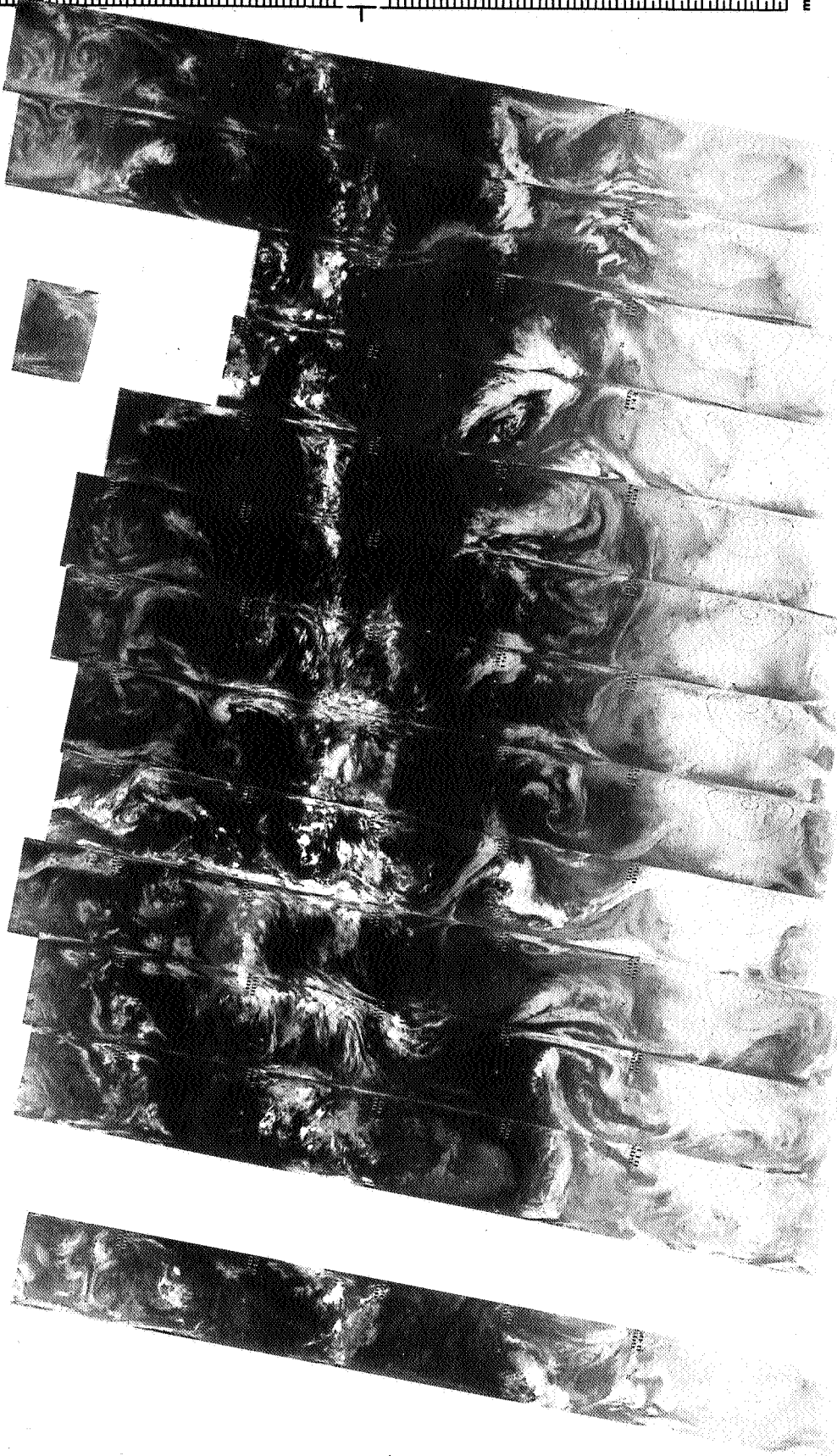
8050 8049 8048 8047 8046 8045 8044 8043 8042 8041 8040 8039 8038 8037

2 AUGUST 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8050 8049 8048 8047 8046 8045 8044 8043 8042 8041 8040 8039 8038 8037
2 AUGUST 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8063 8062 8061 8060 8059 8058 8057 8056 8055 8054 8053 8052 8051

3 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

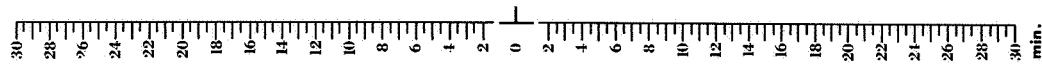


8063 8062 8061 8060 8059 8058 8057 8056 8055 8054 8053 8052 8051

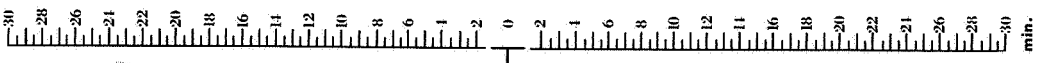
3 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-10

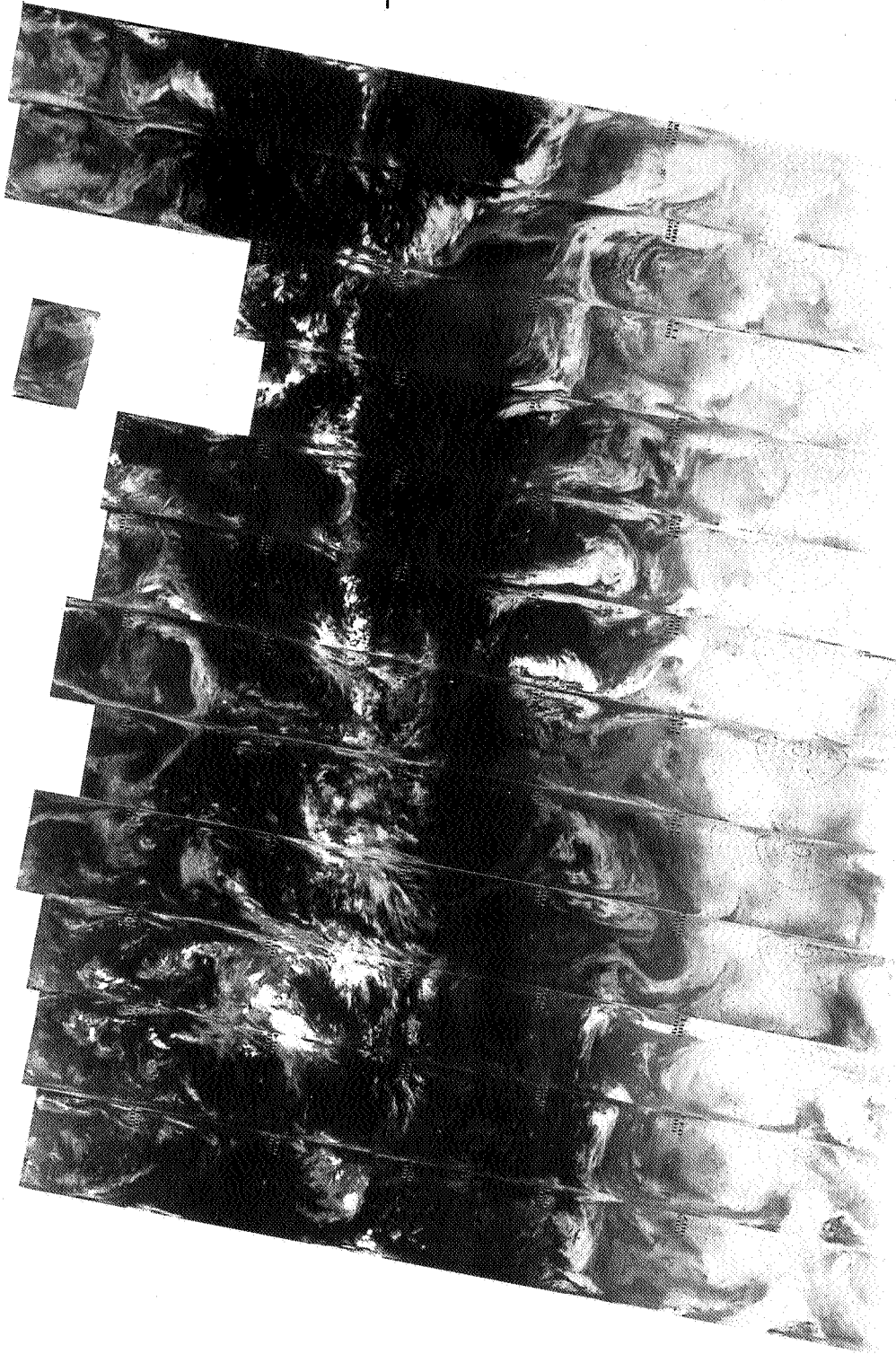


8076 8075 8074 8073 8072 8071 8070 8069 8068 8067 8066 8065 8064

4 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8076 8075 8074 8073 8072 8071 8070 8069 8068 8067 8066 8065 8064

4 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



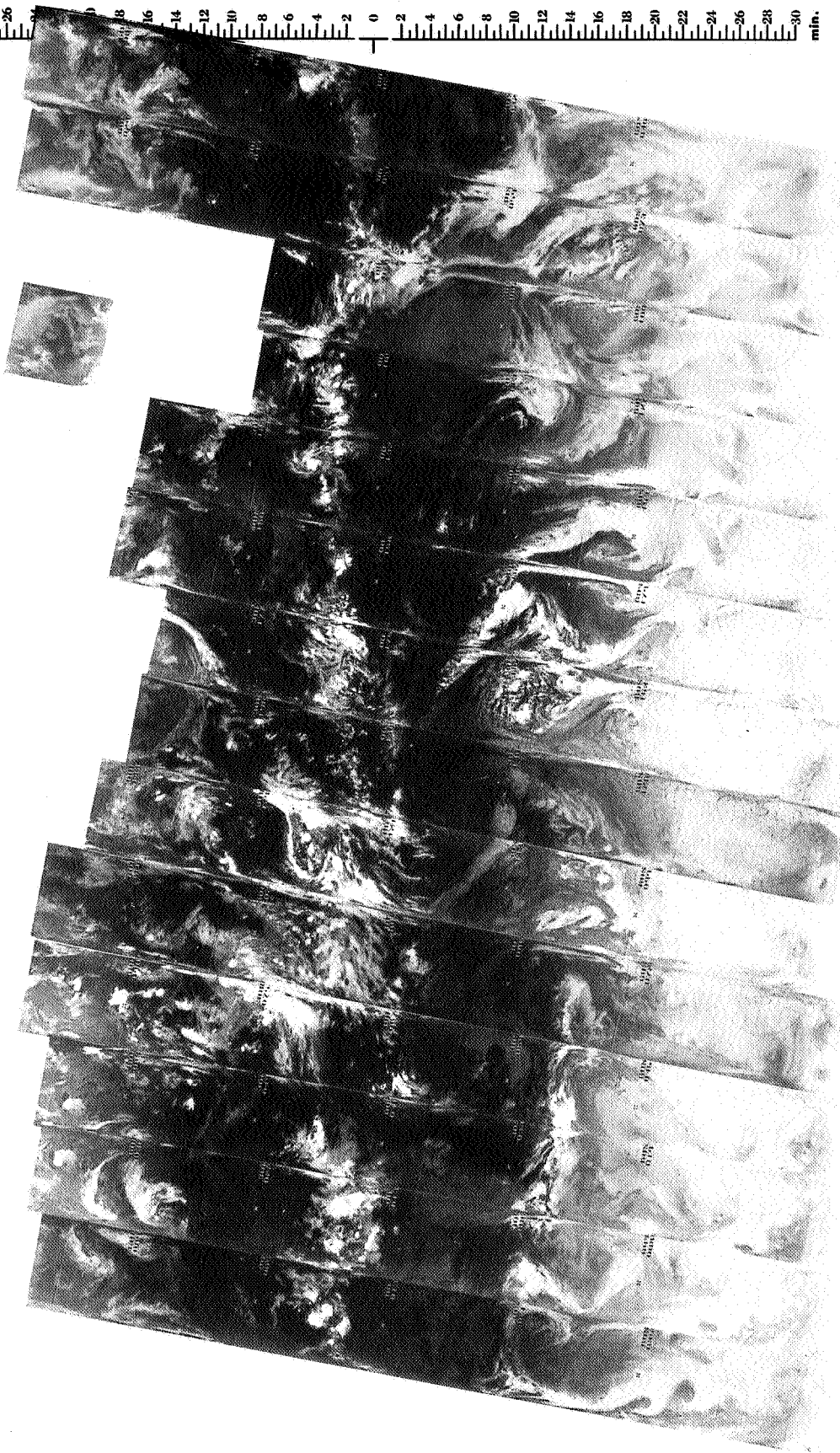
8090 8089 8088 8087 8086 8085 8084 8083 8082 8081 8080 8079 8078 8077

5 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 -2 -4 -6 -8 -10 -12 -14 -16 -18 -20 -22 -24 -26 -28 -30 min.



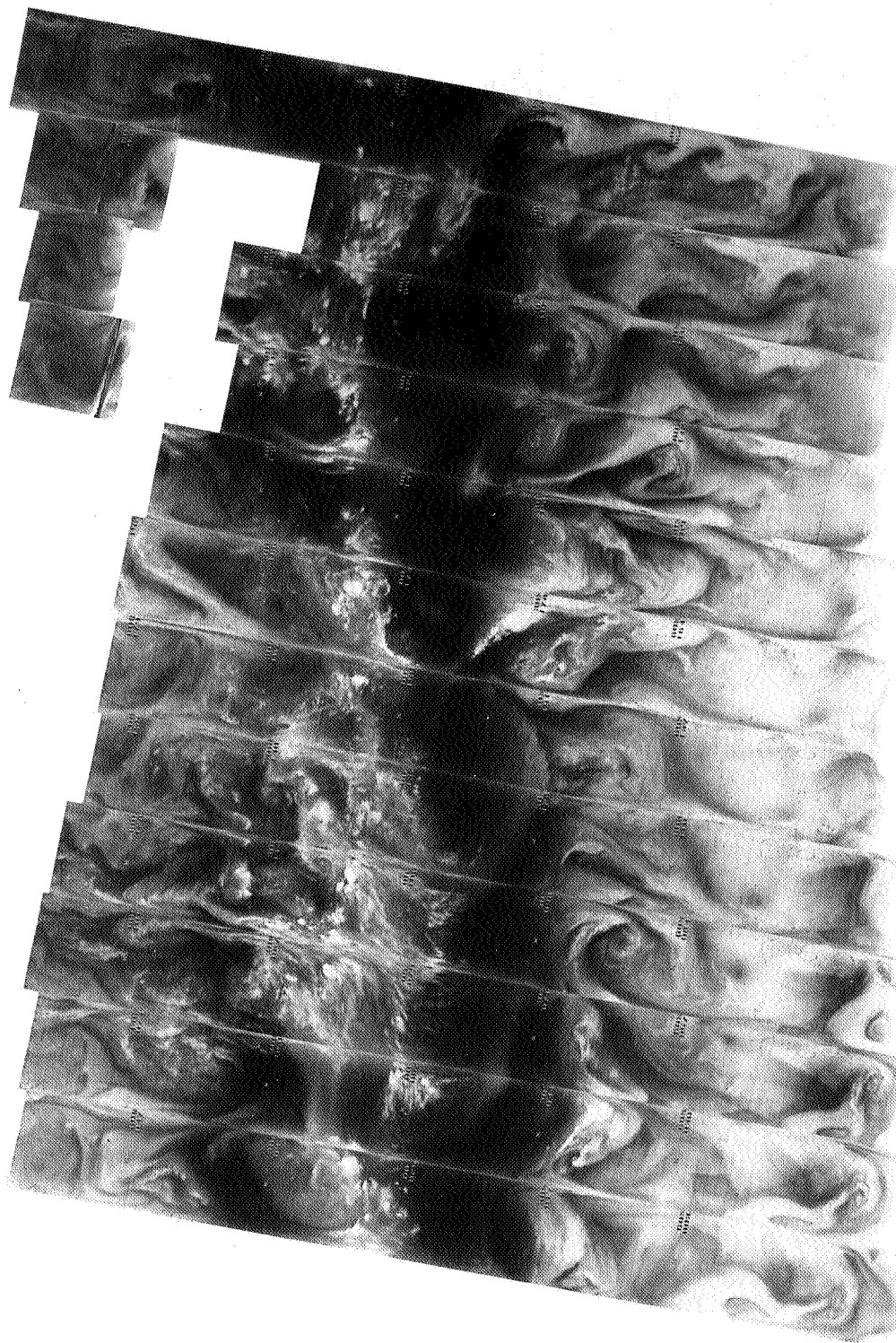
8090 8089 8088 8087 8086 8085 8084 8083 8082 8081 8080 8079 8078 8077

5 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 -2 -4 -6 -8 -10 -12 -14 -16 -18 -20 -22 -24 -26 -28 -30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8103 8102 8101 8100 8099 8098 8097 8096 8095 8094 8093 8092 8091

6 AUGUST 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8103 8102 8101 8100 8099 8098 8097 8096 8095 8094 8093 8092 8091

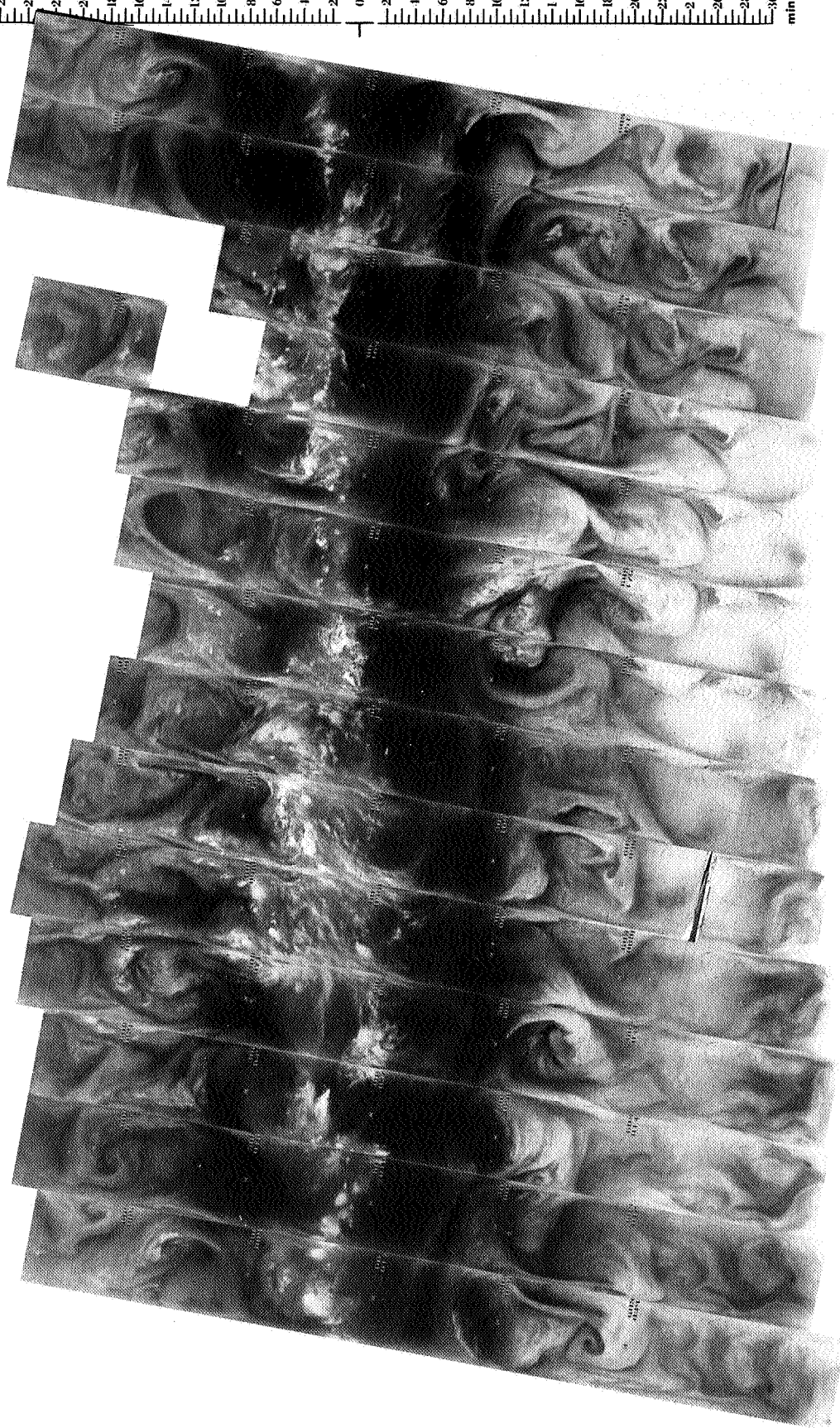
6 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8117 8116 8115 8114 8113 8112 8111 8110 8109 8108 8107 8106 8105 8104

7 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



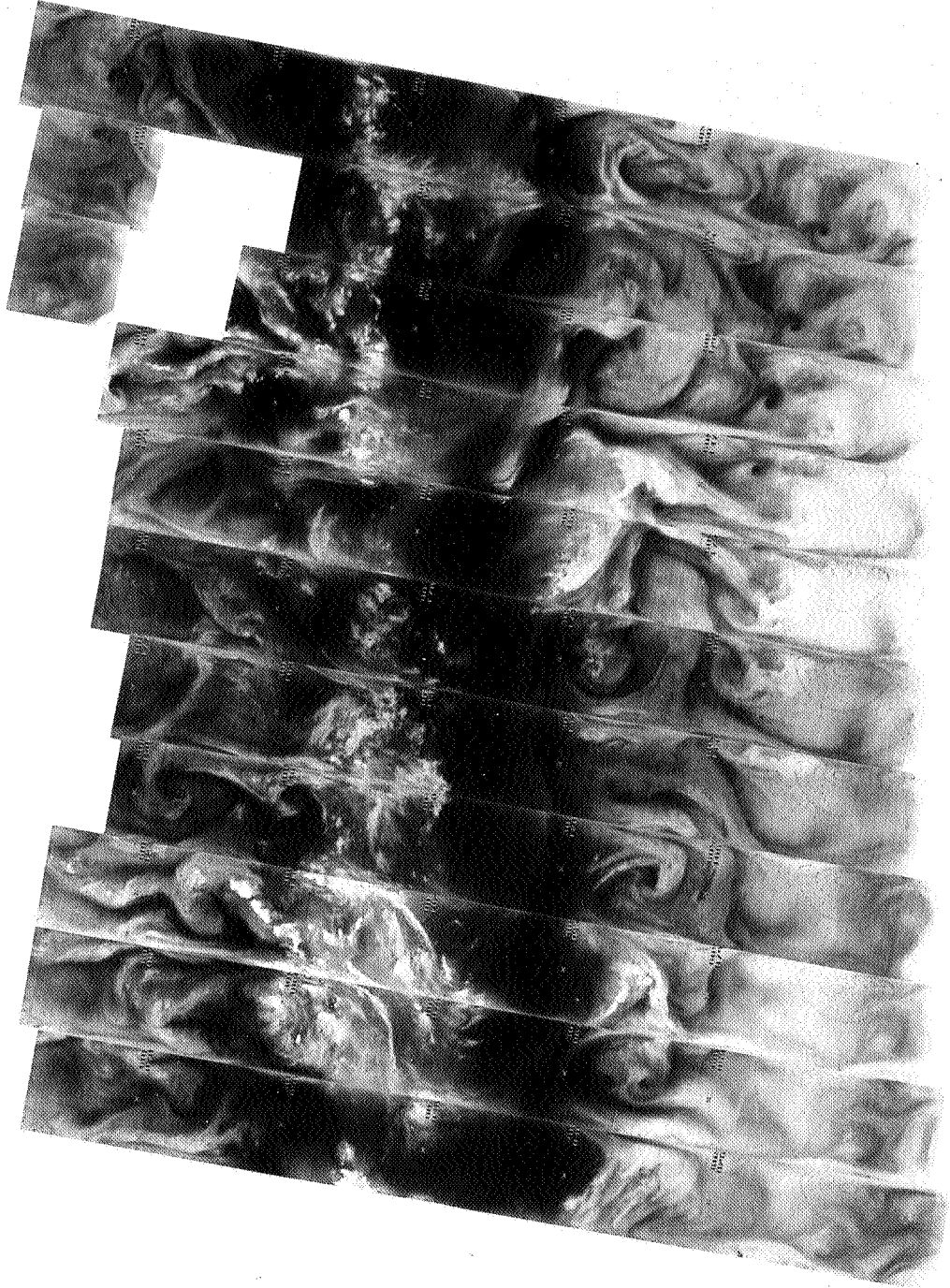
8117 8116 8115 8114 8113 8112 8111 8110 8109 8108 8107 8106 8105 8104

7 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8130 8129 8128 8127 8126 8125 8124 8123 8122 8121 8120 8119 8118

8 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



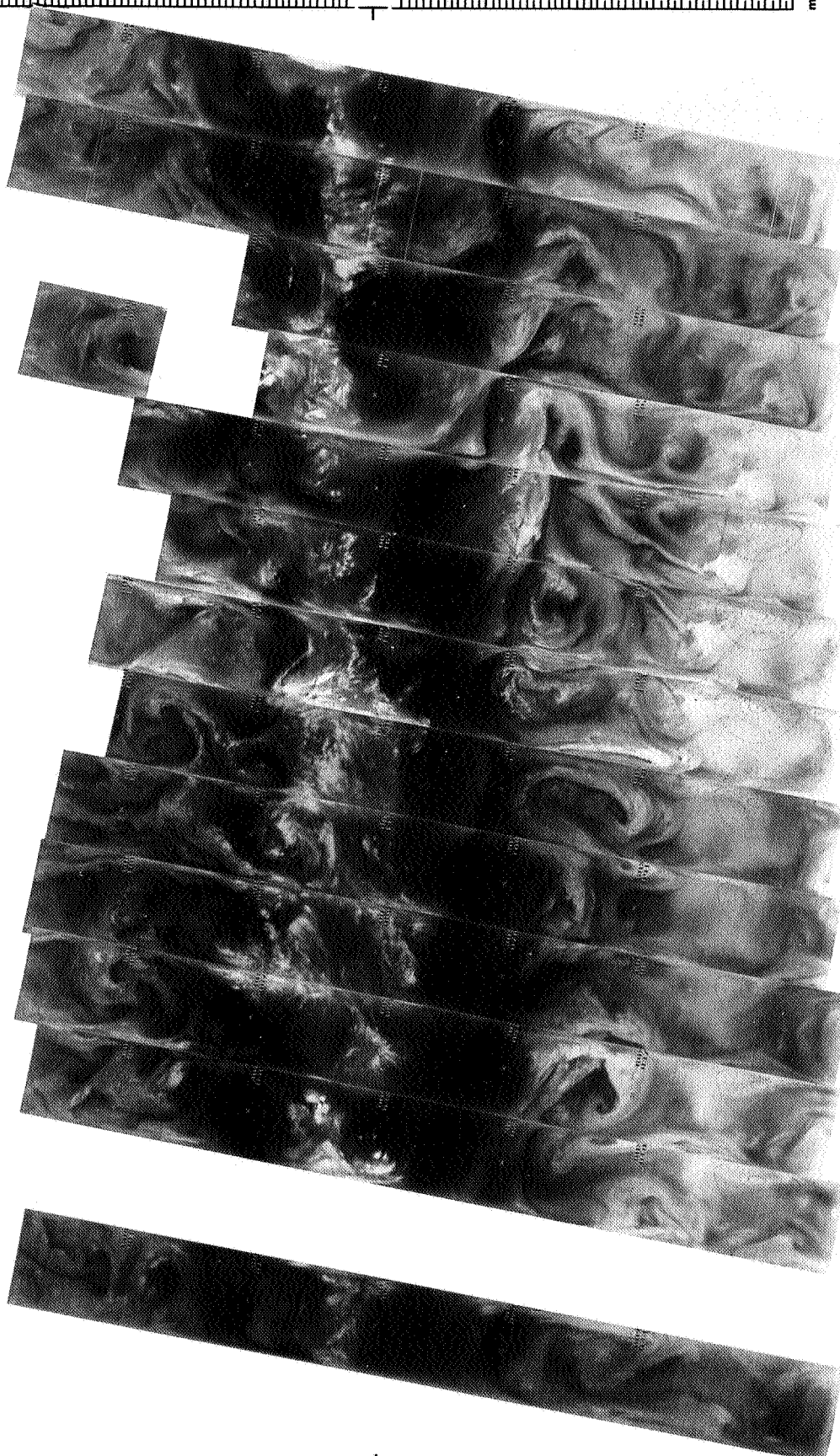
8130 8129 8128 8127 8126 8125 8124 8123 8122 8121 8120 8119 8118

8 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8144 8143 8142 8141 8140 8139 8138 8137 8136 8135 8134 8133 8132 8131

9 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



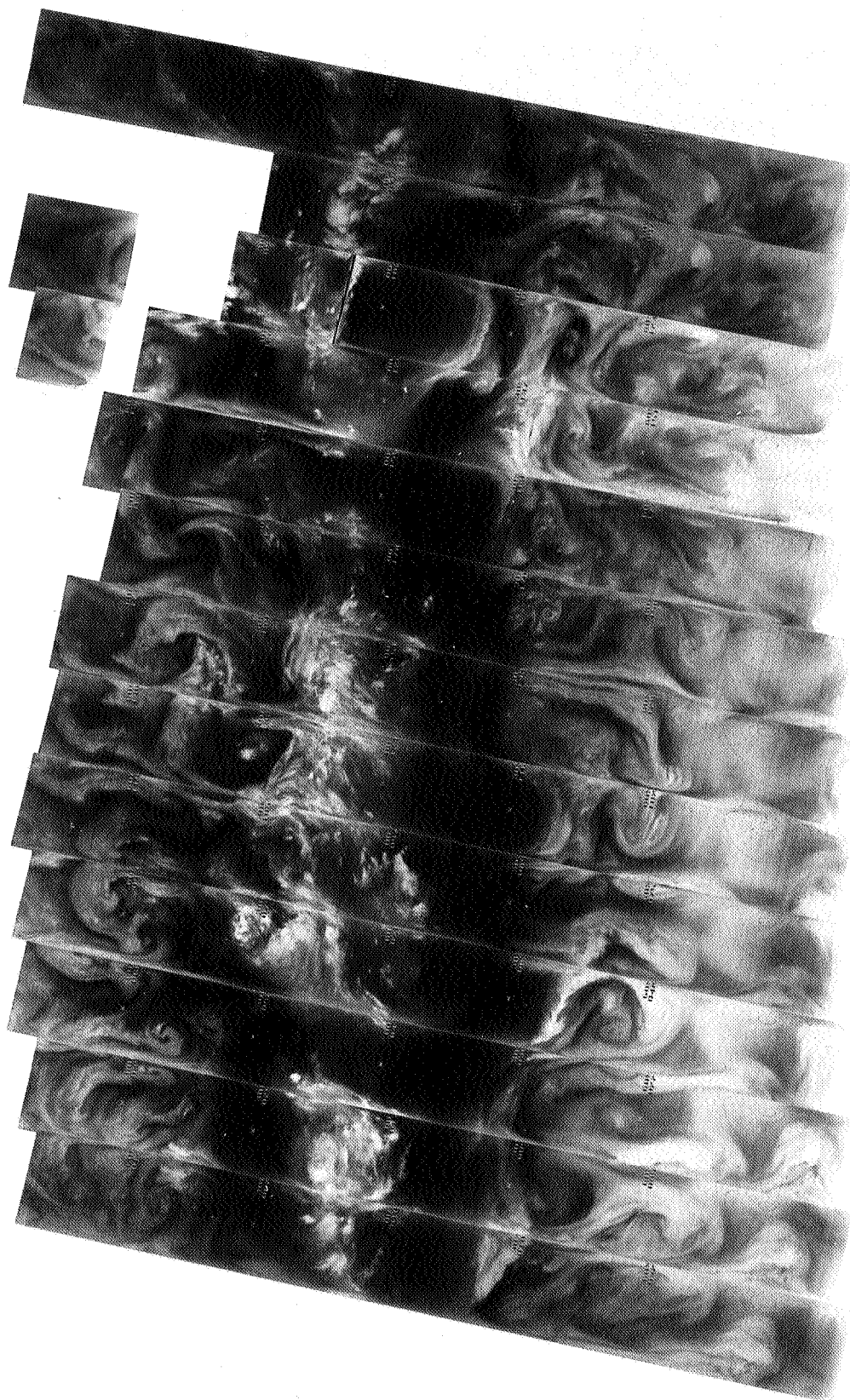
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8144 8143 8142 8141 8140 8139 8138 8137 8136 8135 8134 8133 8132 8131

9 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8157 8156 8155 8154 8153 8152 8151 8150 8149 8148 8147 8146 8145

10 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

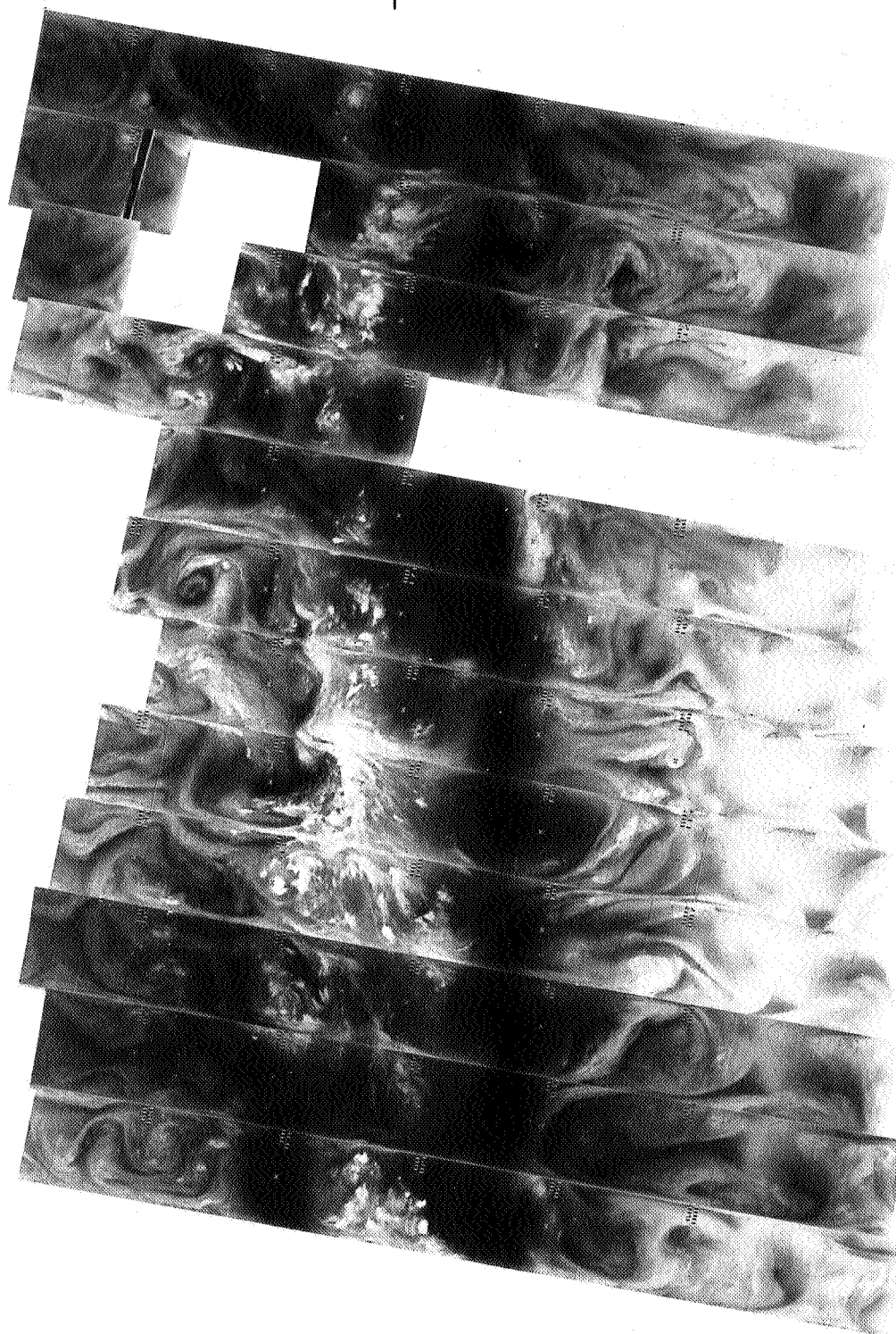
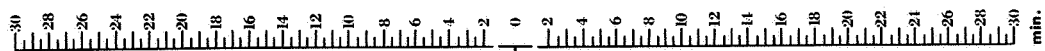


8157 8156 8155 8154 8153 8152 8151 8150 8149 8148 8147 8146 8145

10 AUGUST 1974

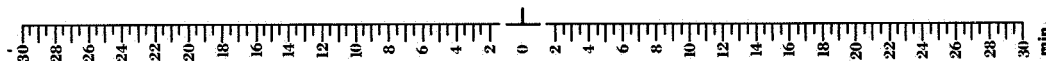
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

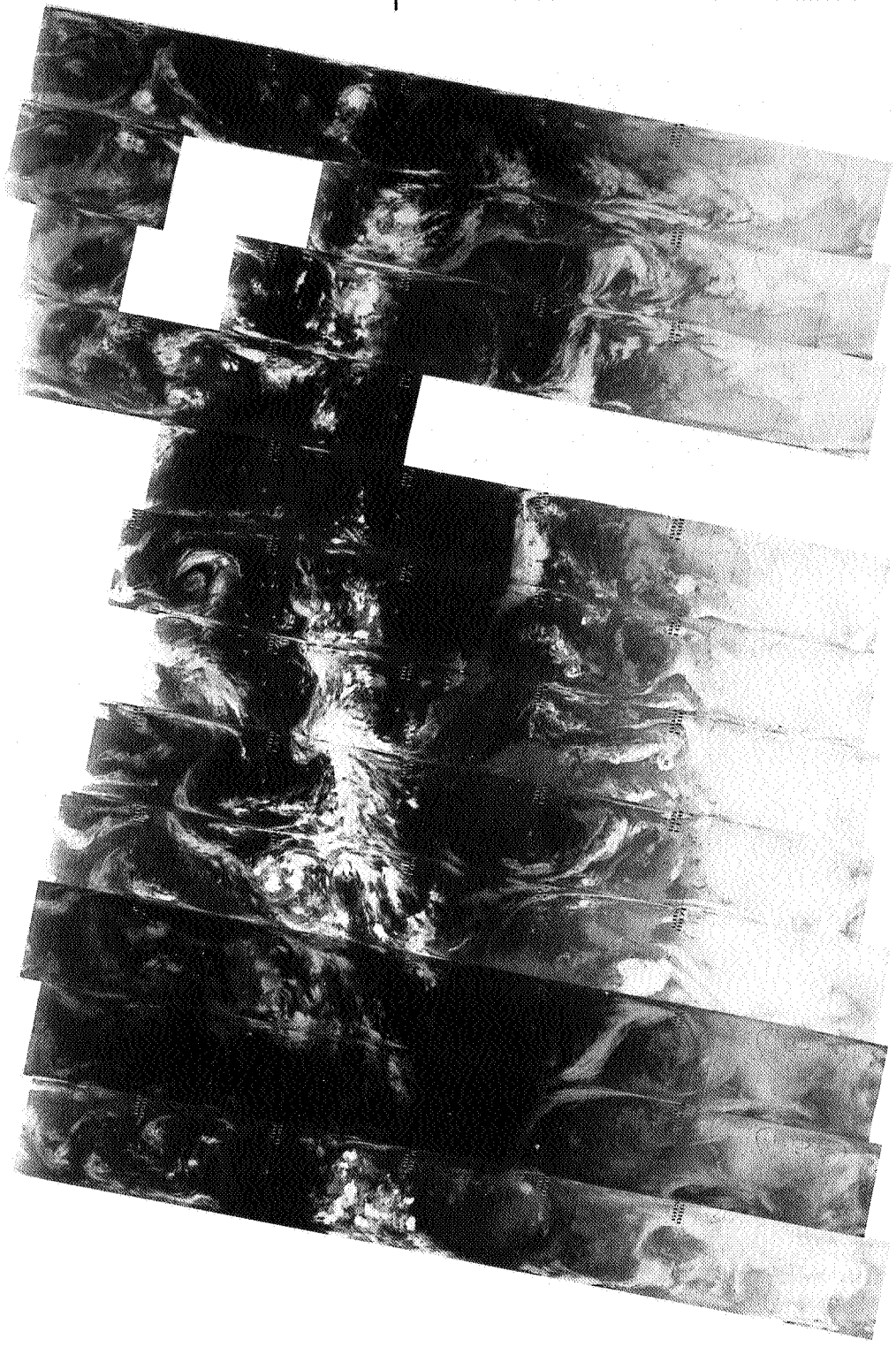


11 AUGUST 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



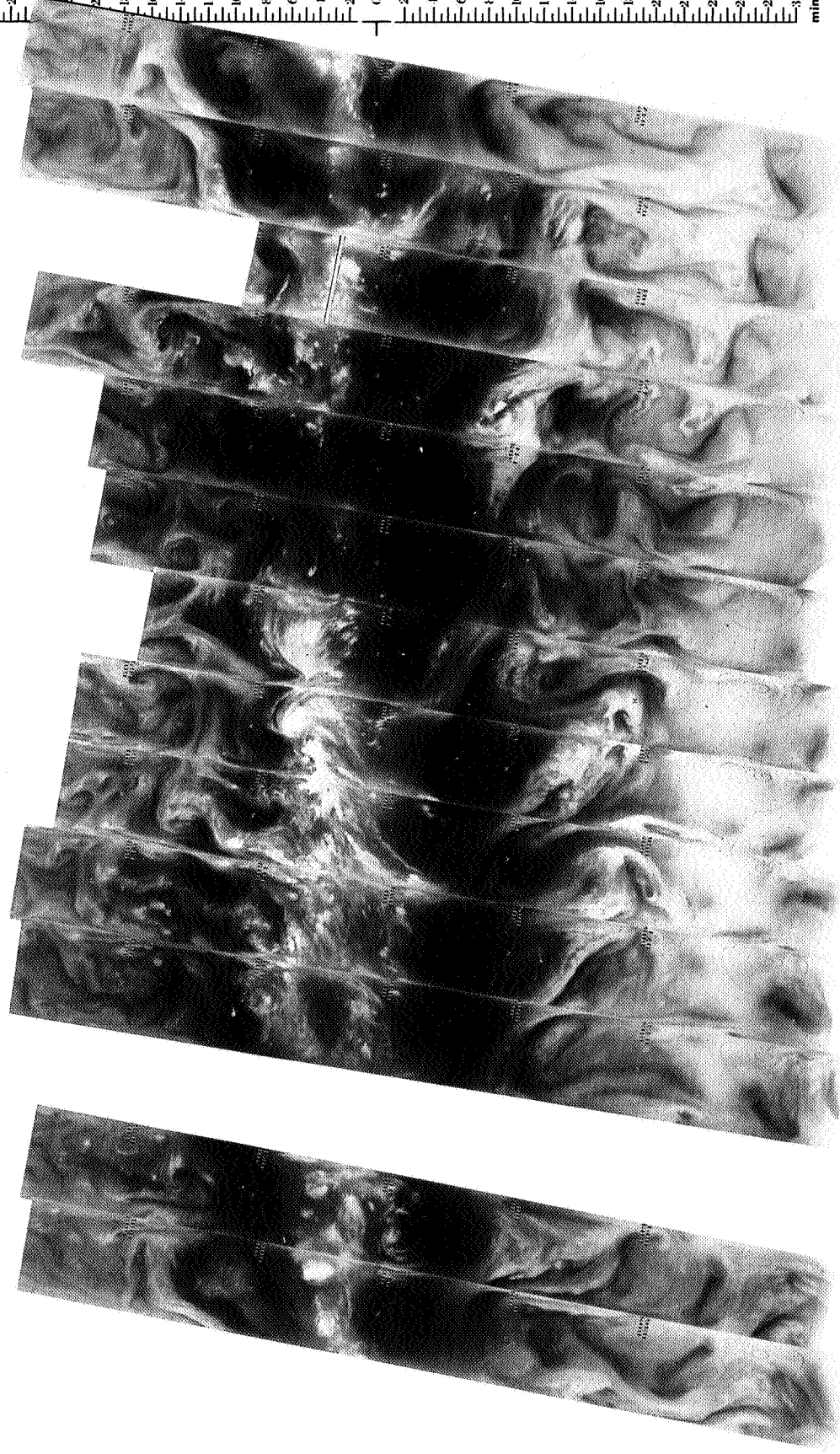
8170 8169 8168 8167 8166 8165 8164 8163 8162 8161 8160 8159 8158

11 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

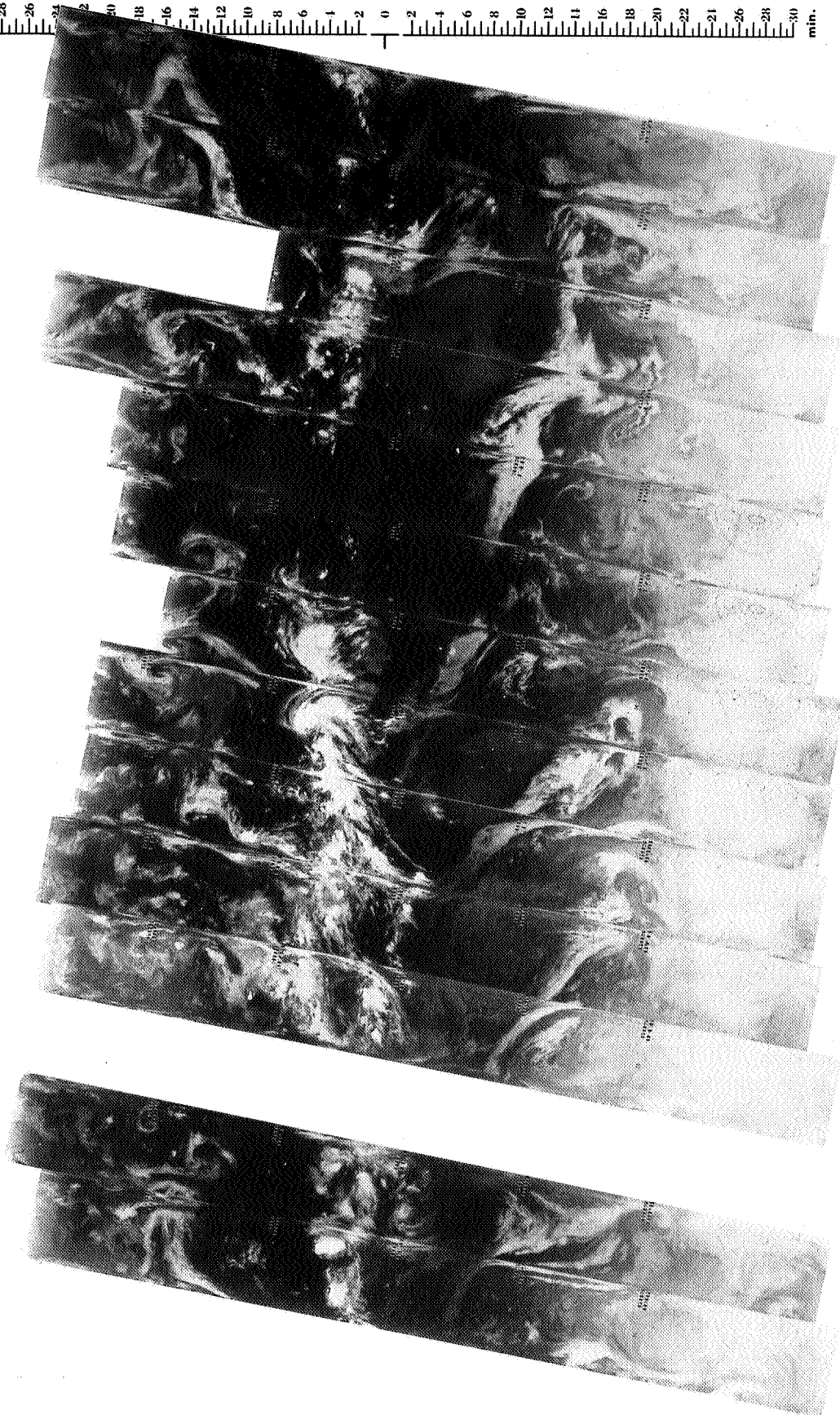
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8184 8183 8182 8181 8180 8179 8178 8177 8176 8175 8174 8173 8172 8171
12 AUGUST 1974
6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



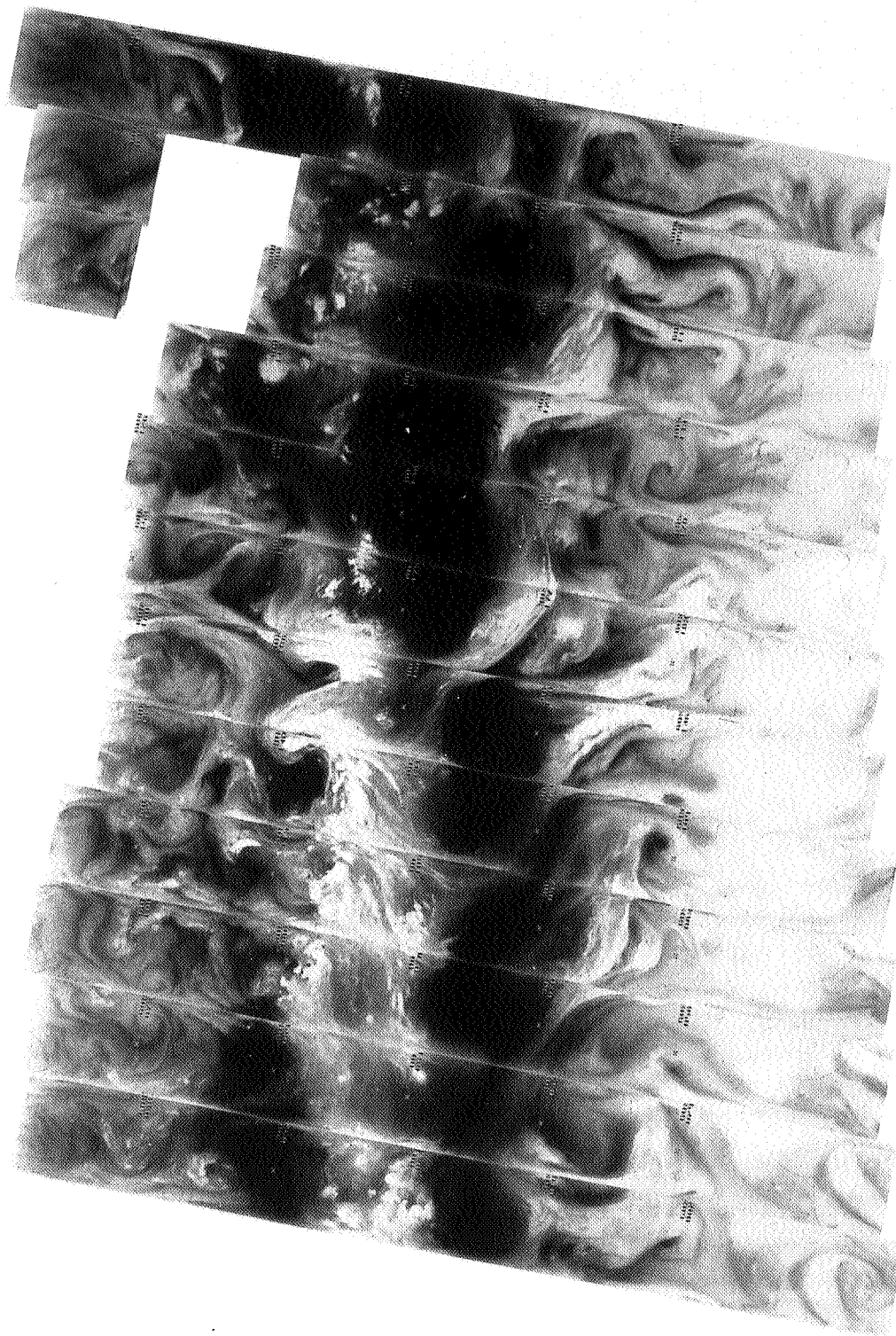
8184 8183 8182 8181 8180 8179 8178 8177 8176 8175 8174 8173 8172 8171

12 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



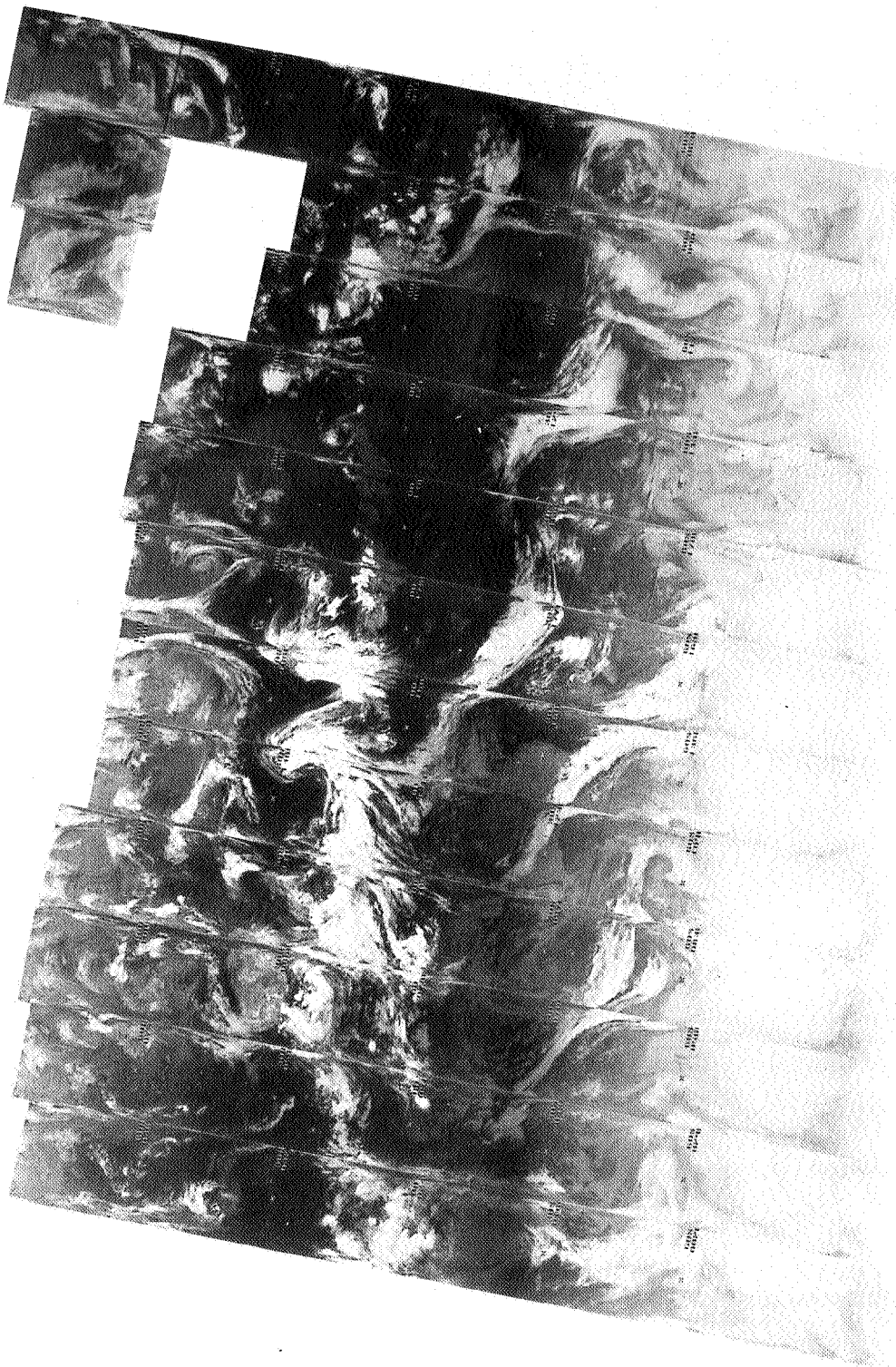
8197 8196 8195 8194 8193 8192 8191 8190 8189 8188 8187 8186 8185

13 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



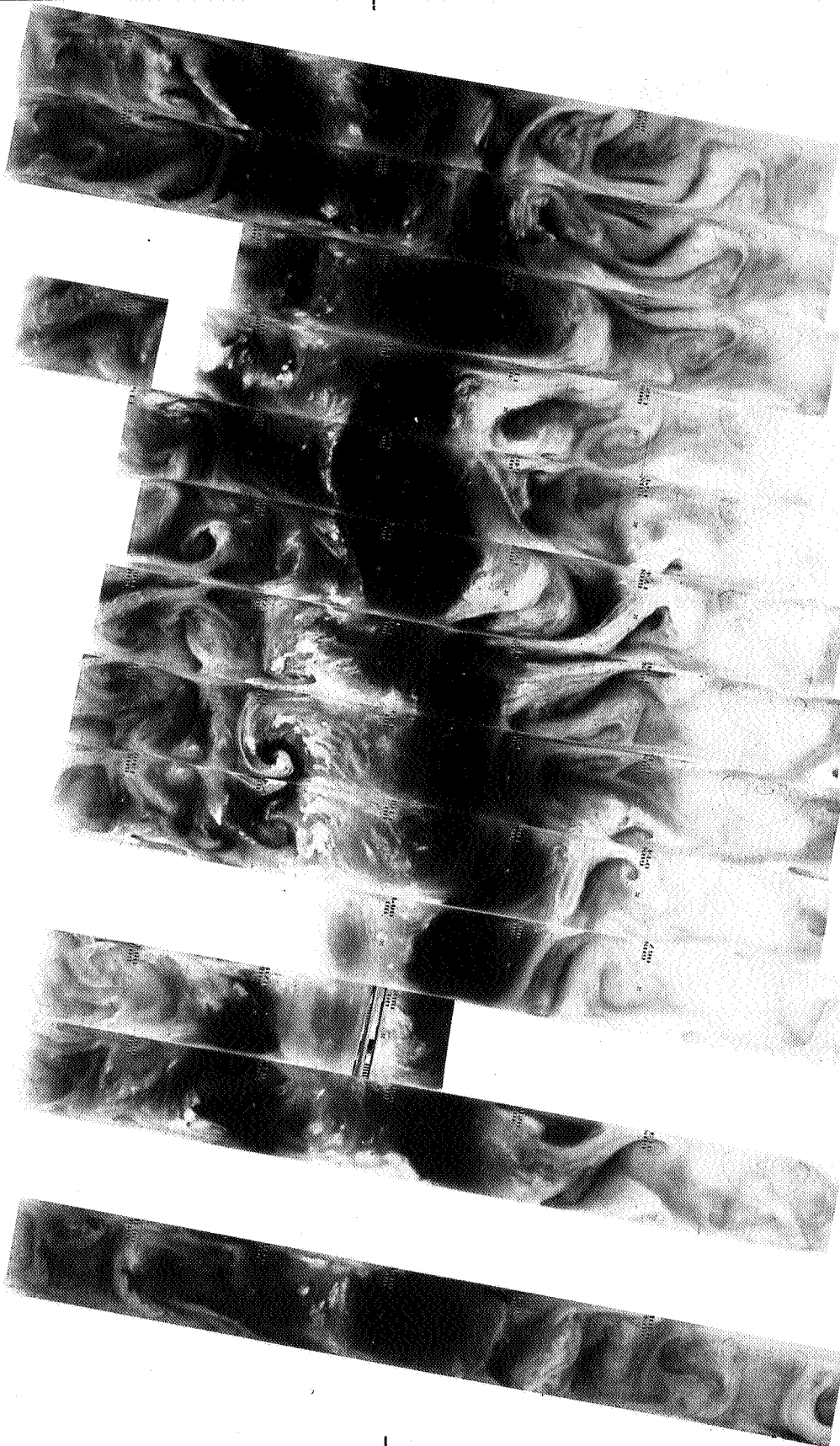
8197 8196 8195 8194 8193 8192 8191 8190 8189 8188 8187 8186 8185

13 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8211 8210 8209 8208 8207 8206 8205 8204 8203 8202 8201 8200 8199 8198

14 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8211 8210 8209 8208 8207 8206 8205 8204 8203 8202 8201 8200 8199 8198

14 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8224 8223 8222 8221 8220 8219 8218 8217 8216 8215 8214 8213 8212

15 AUGUST 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

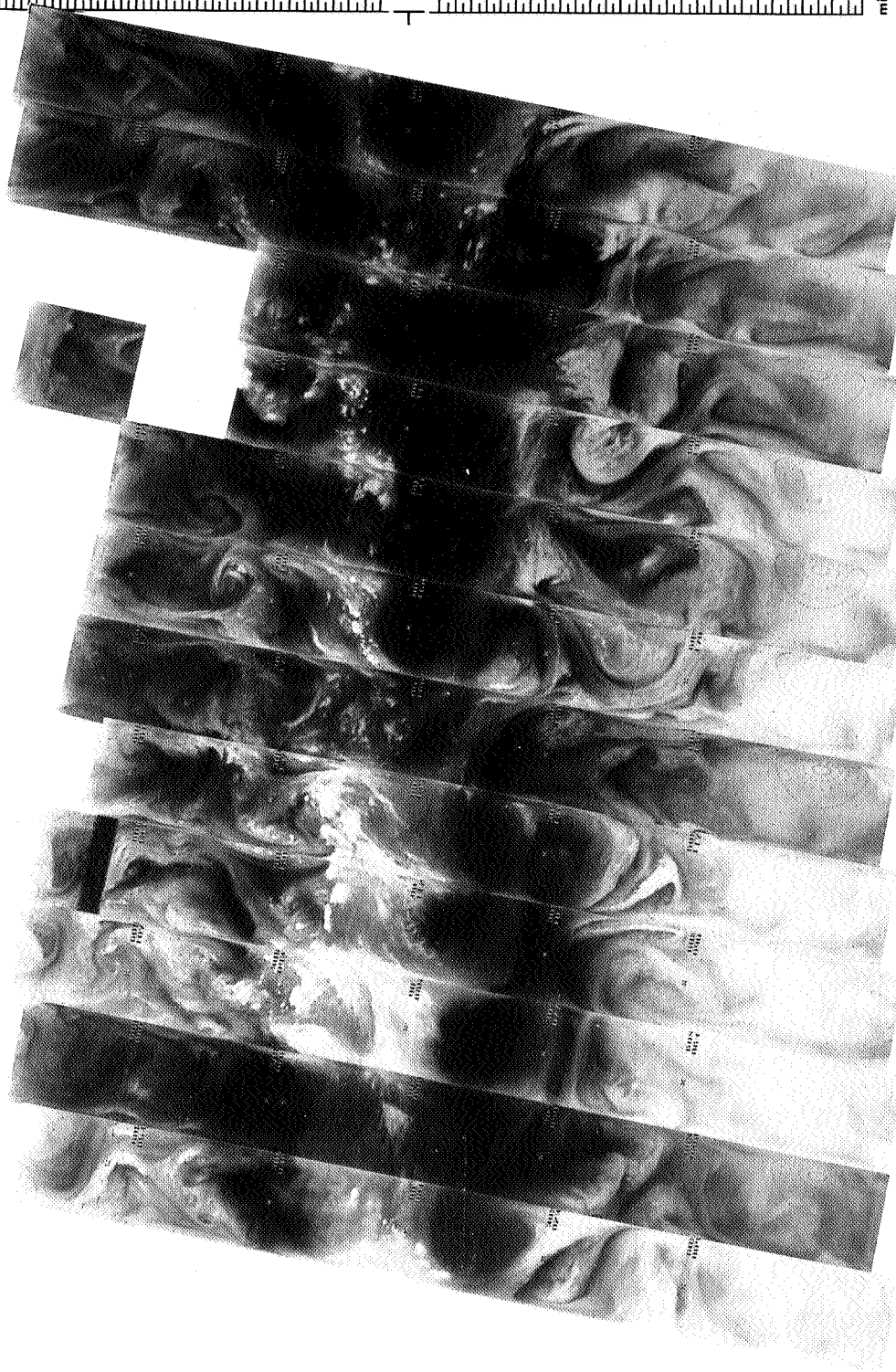
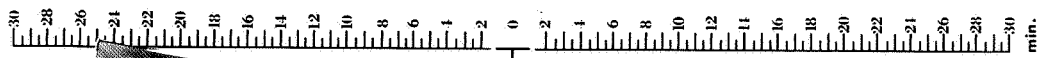


8224 8223 8222 8221 8220 8219 8218 8217 8216 8215 8214 8213 8212

15 AUGUST 1974

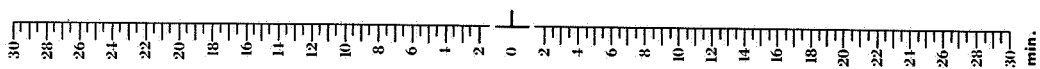
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



16 AUGUST 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



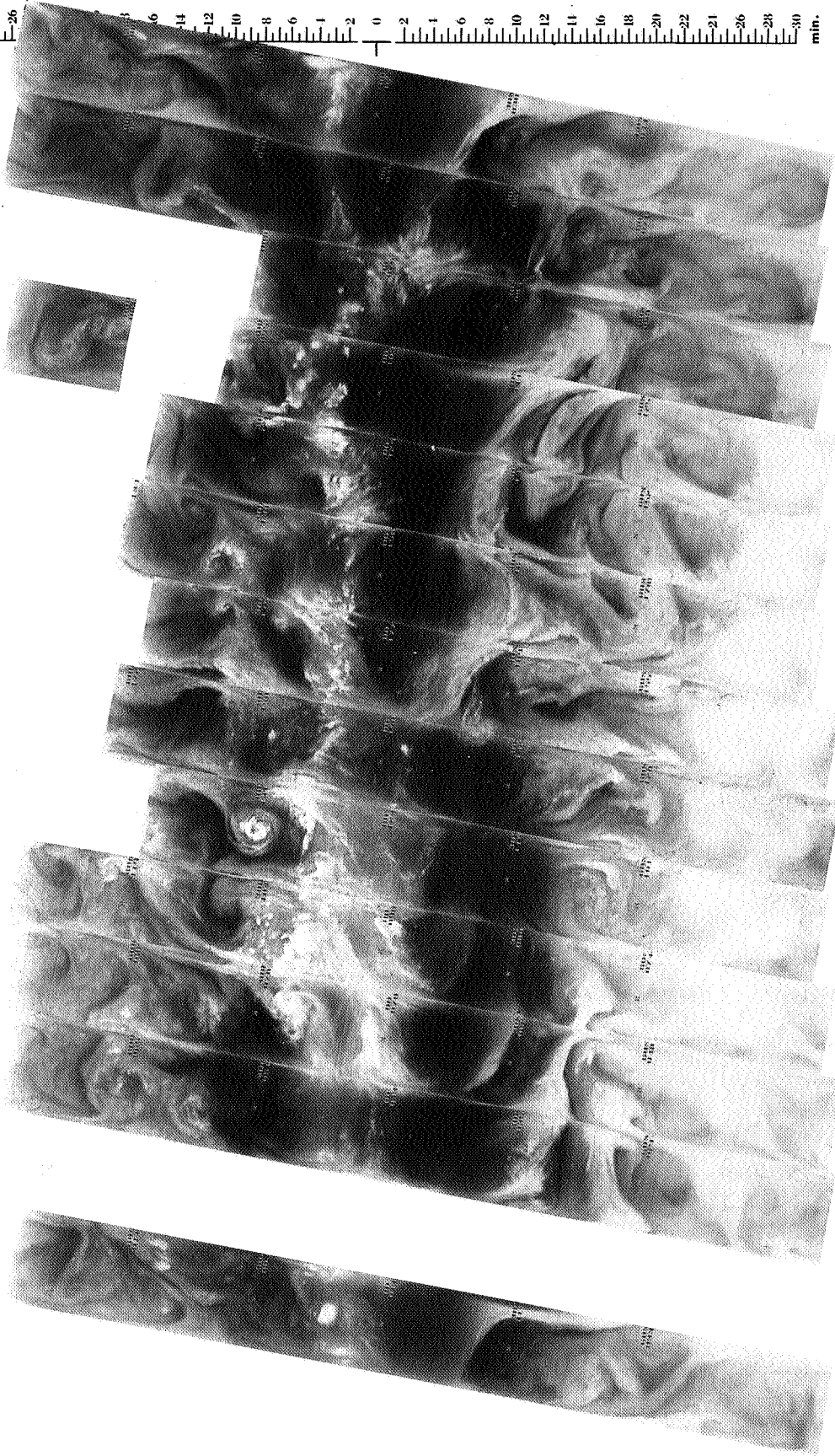
8237 8236 8235 8234 8233 8232 8231 8230 8229 8228 8227 8226 8225

16 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



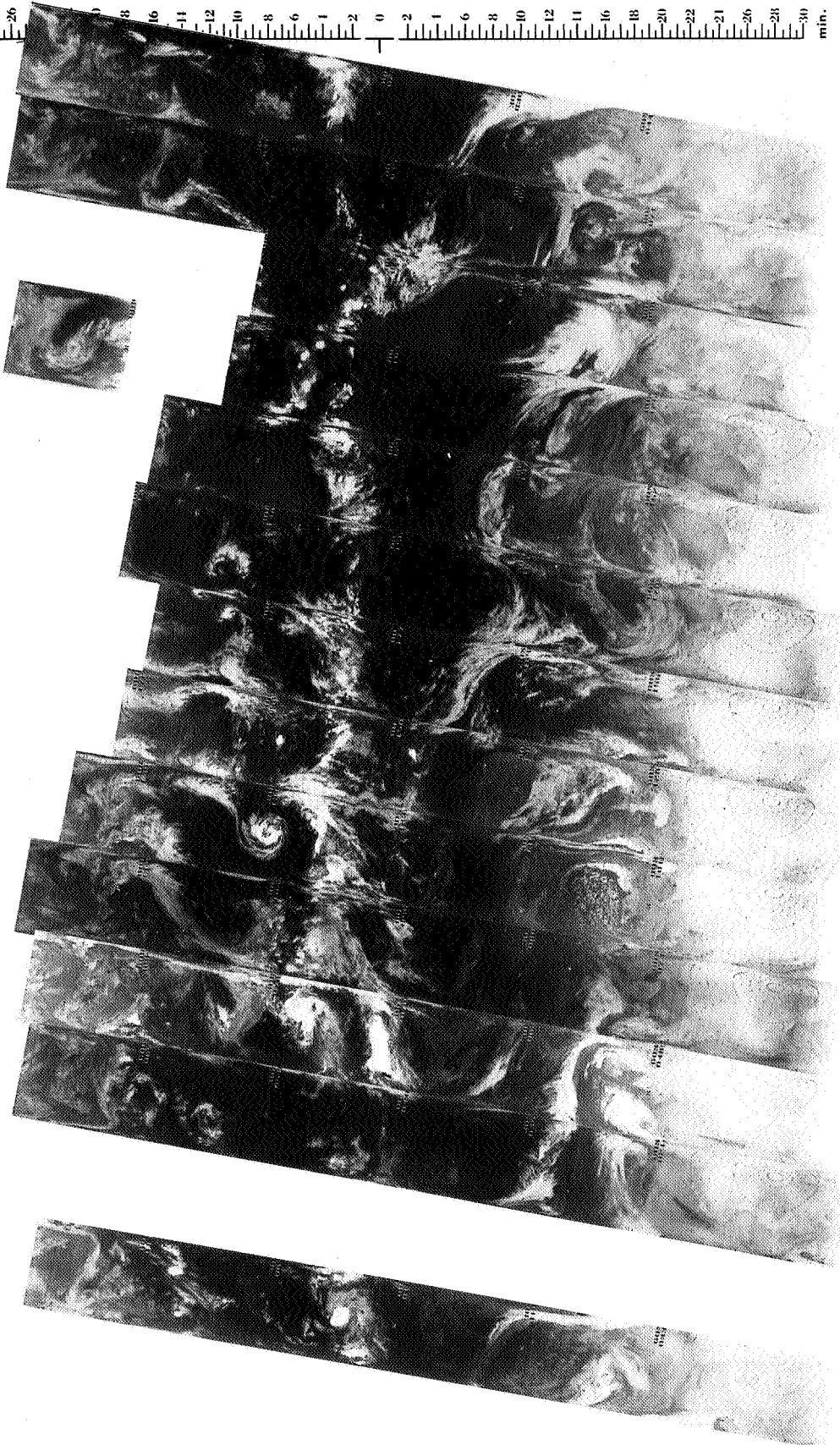
8251 8250 8249 8248 8247 8246 8245 8244 8243 8242 8241 8240 8239 8238

17 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8238

8239

8240

8241

8242

8243

8244

8245

8246

8247

8248

8249

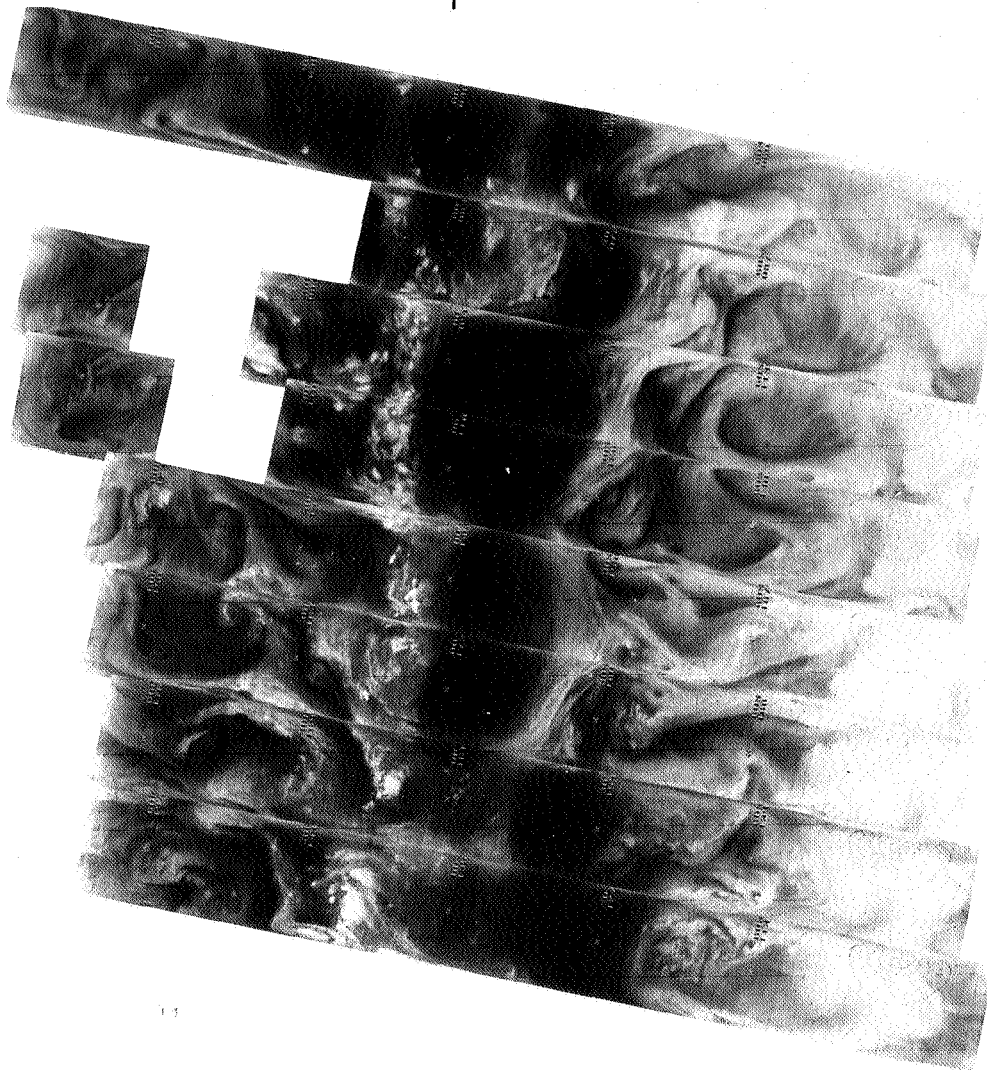
8250

8251

17 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



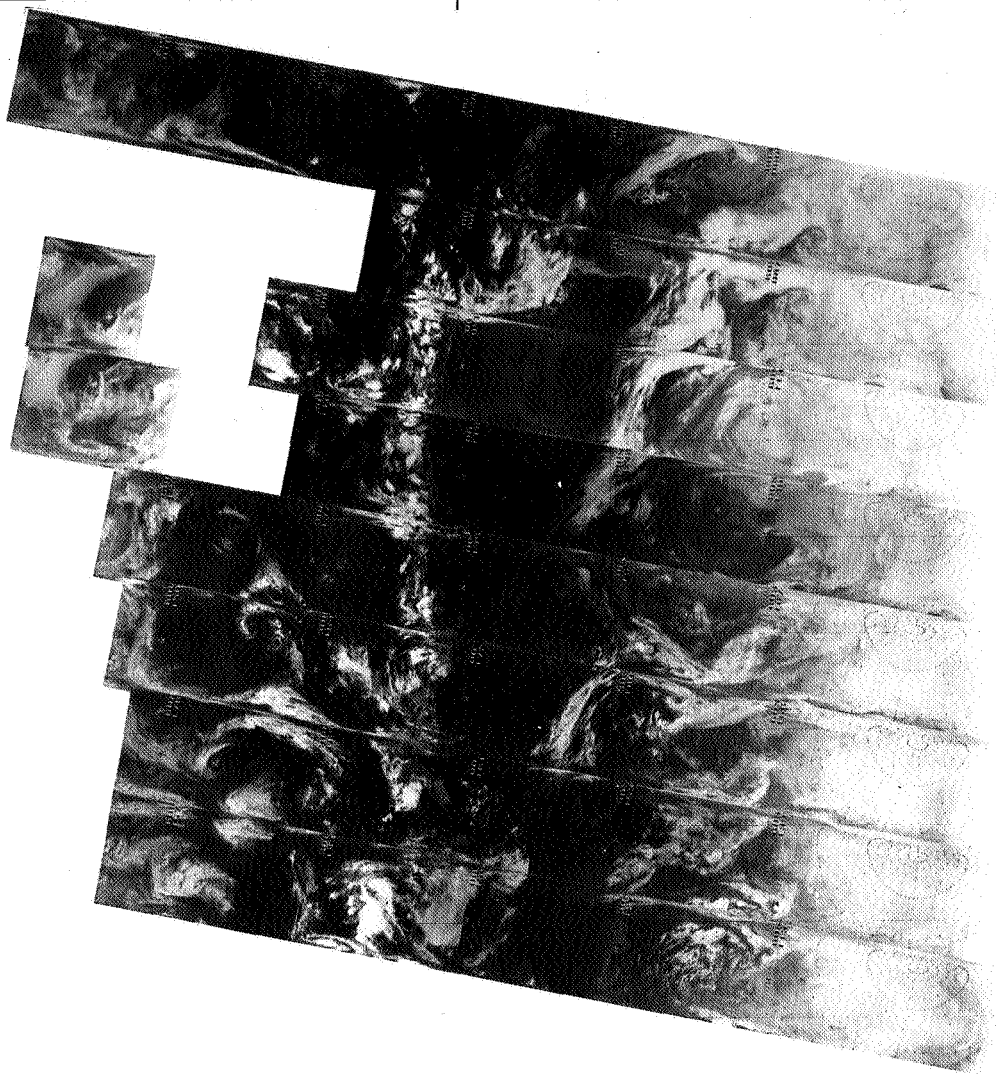
8264 8263 8262 8261 8260 8259 8258 8257 8256 8255 8254 8253 8252

18 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



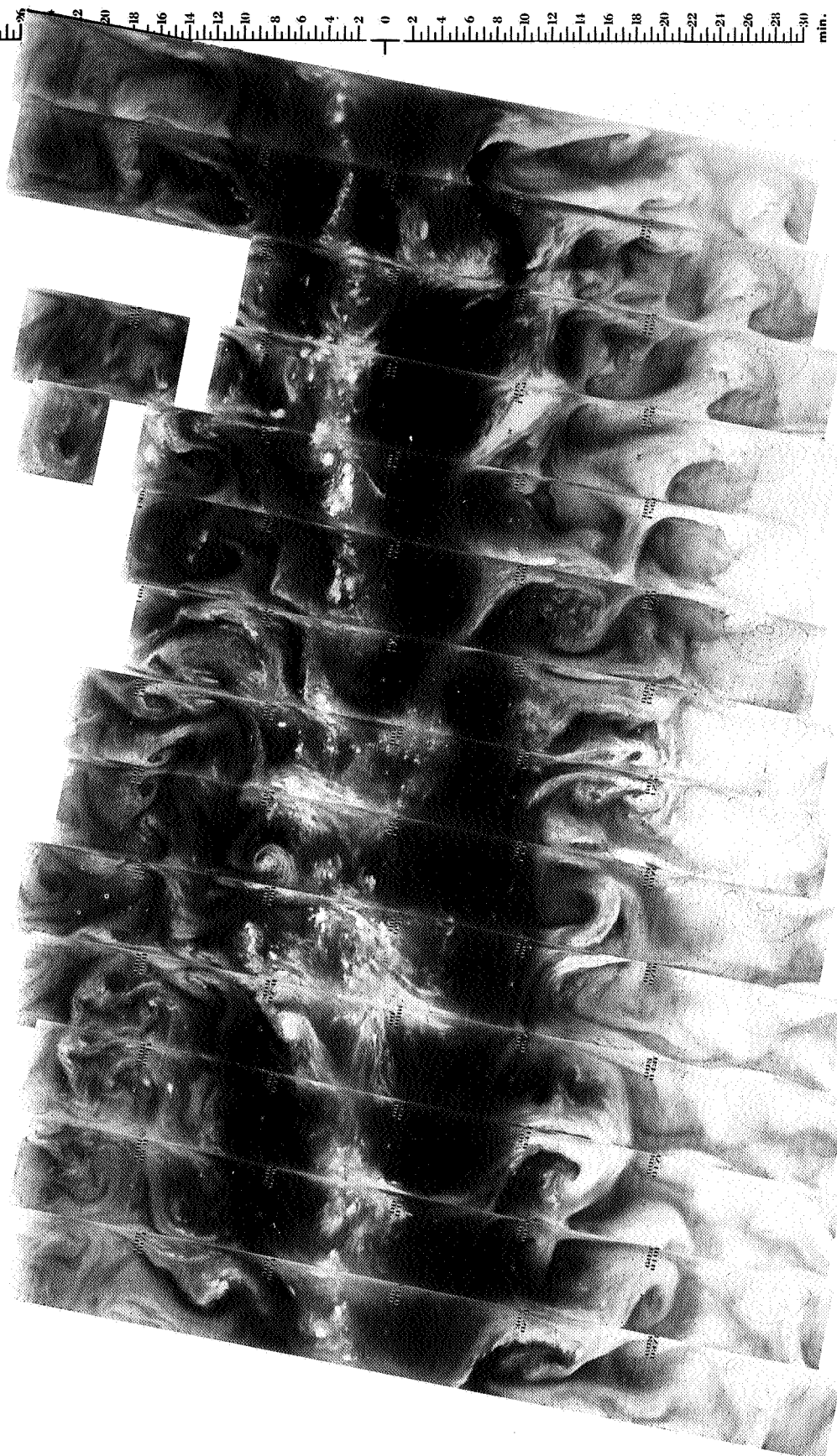
8264 8263 8262 8261 8260 8259 8258 8257 8256 8255 8254 8253 8252

18 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



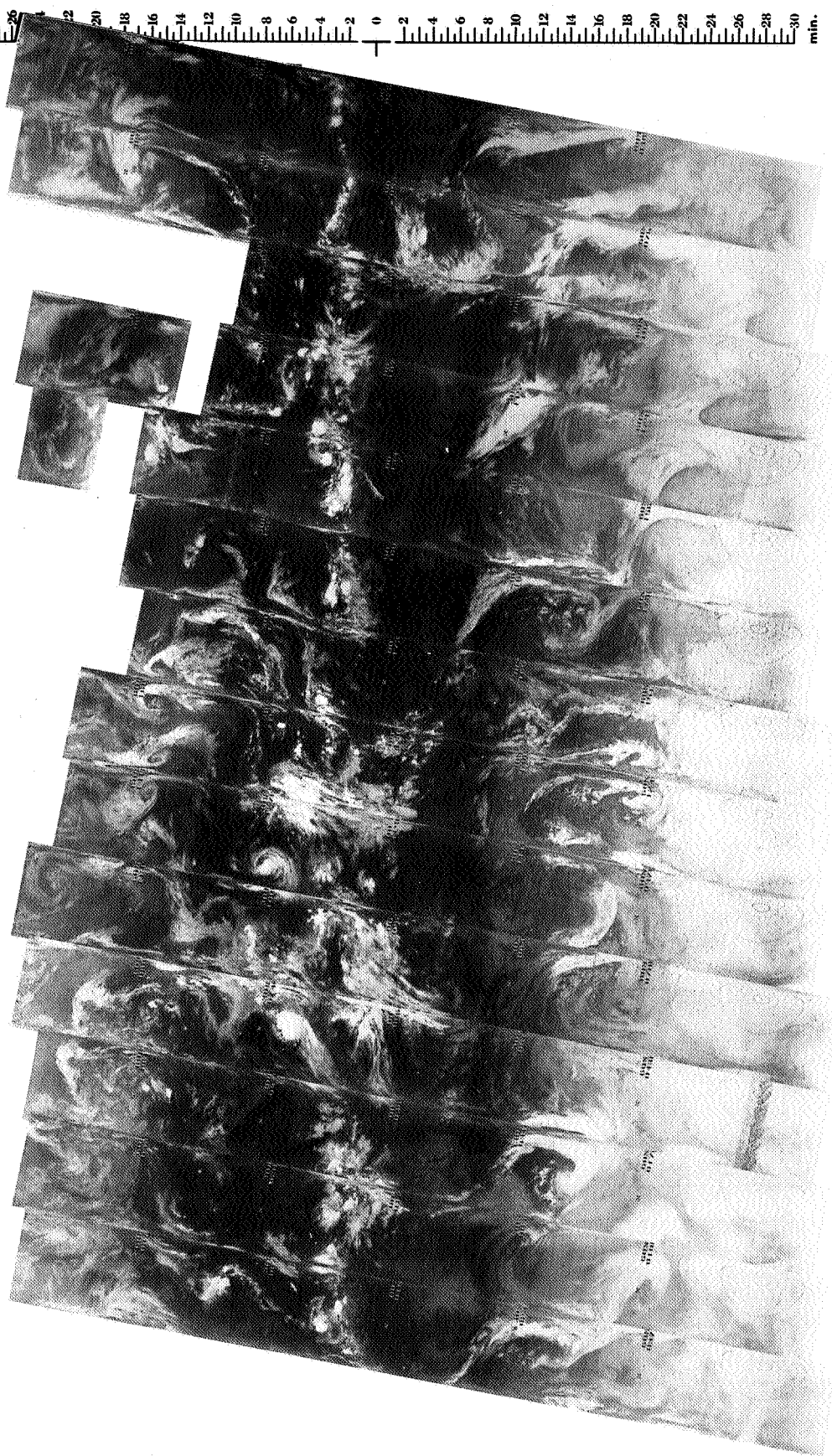
8278 8277 8276 8275 8274 8273 8272 8271 8270 8269 8268 8267 8266 8265

19 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

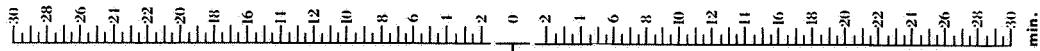


8278 8277 8276 8275 8274 8273 8272 8271 8270 8269 8268 8267 8266 8265

19 AUGUST 1974

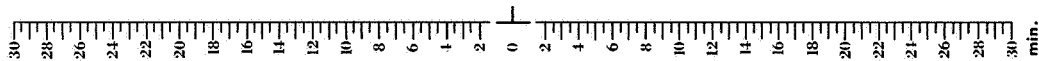
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

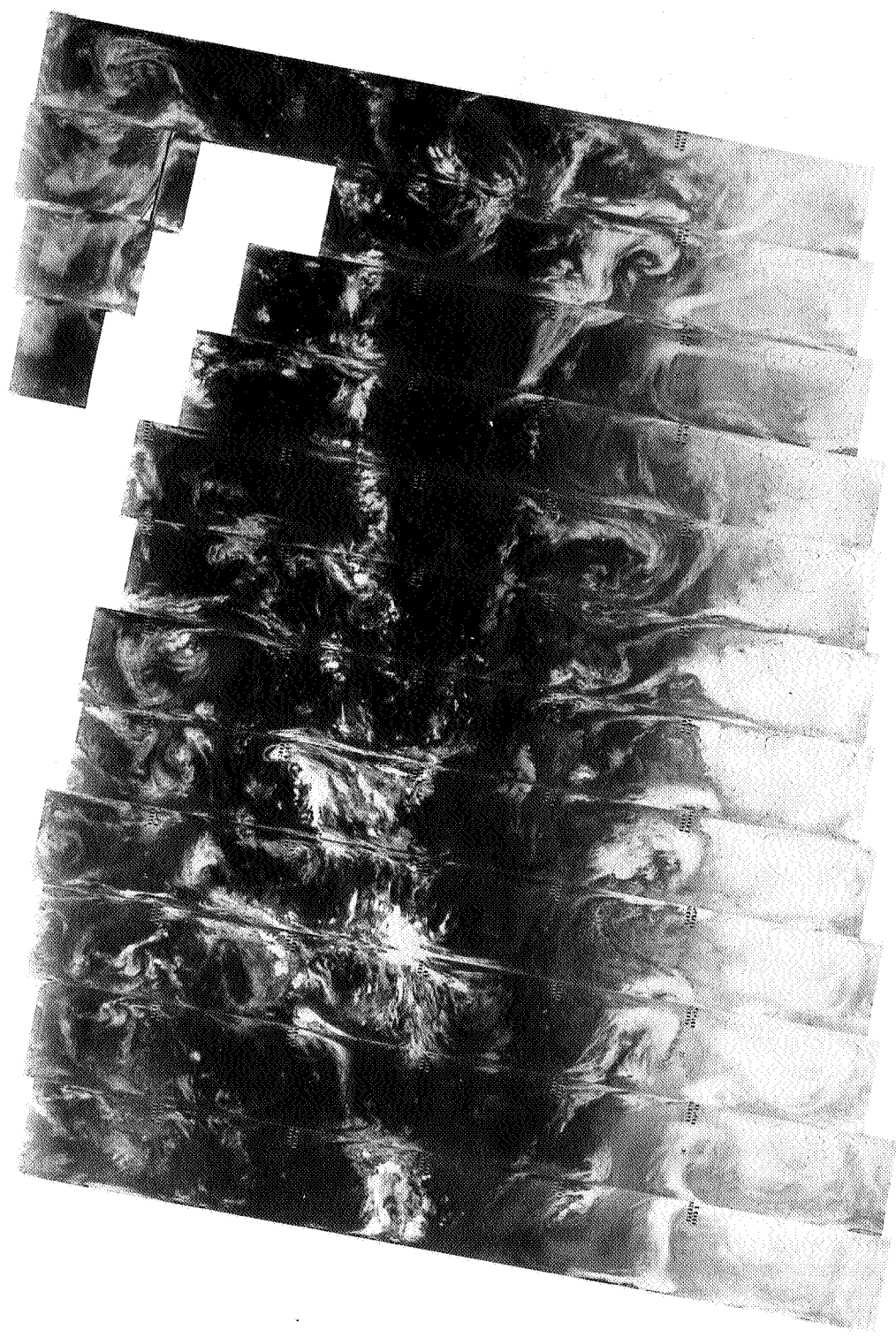


20 AUGUST 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



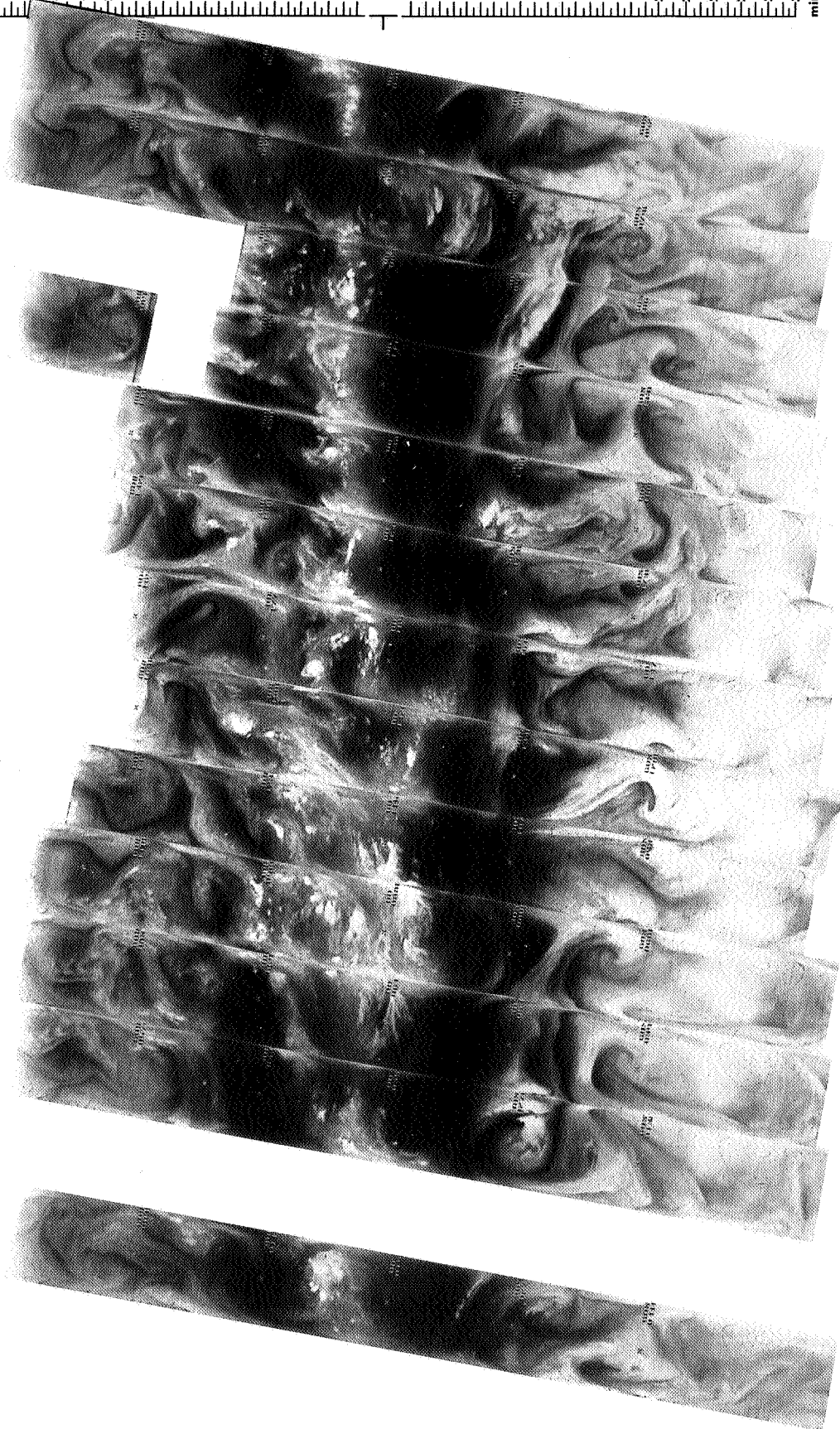
8291 8290 8289 8288 8287 8286 8285 8284 8283 8282 8281 8280 8279

20 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



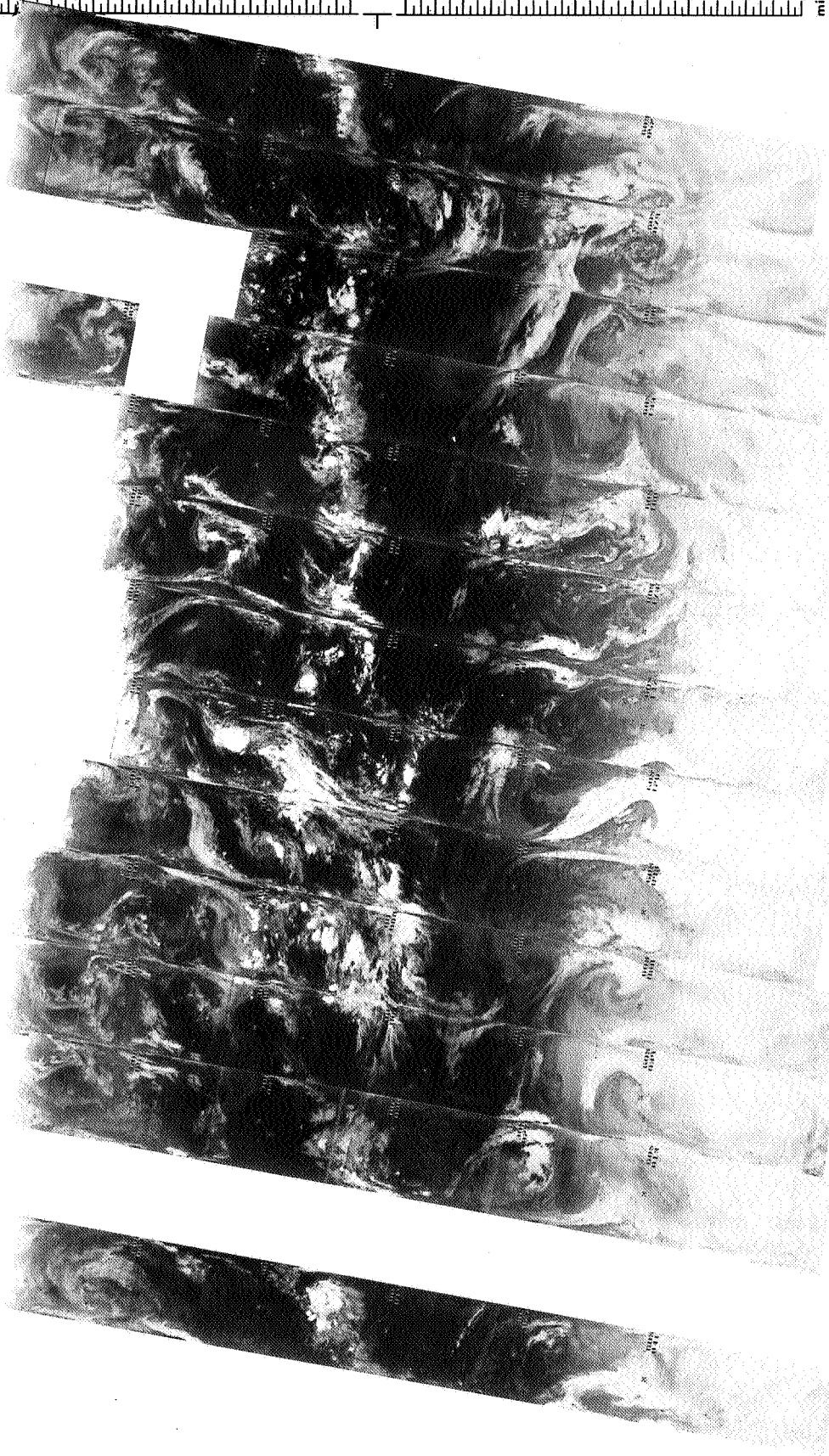
8305 8304 8303 8302 8301 8300 8299 8298 8297 8296 8295 8294 8293 8292

21 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8305 8304 8303 8302 8301 8300 8299 8298 8297 8296 8295 8294 8293 8292

21 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8318 8317 8316 8315 8314 8313 8312 8311 8310 8309 8308 8307 8306

22 AUGUST 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



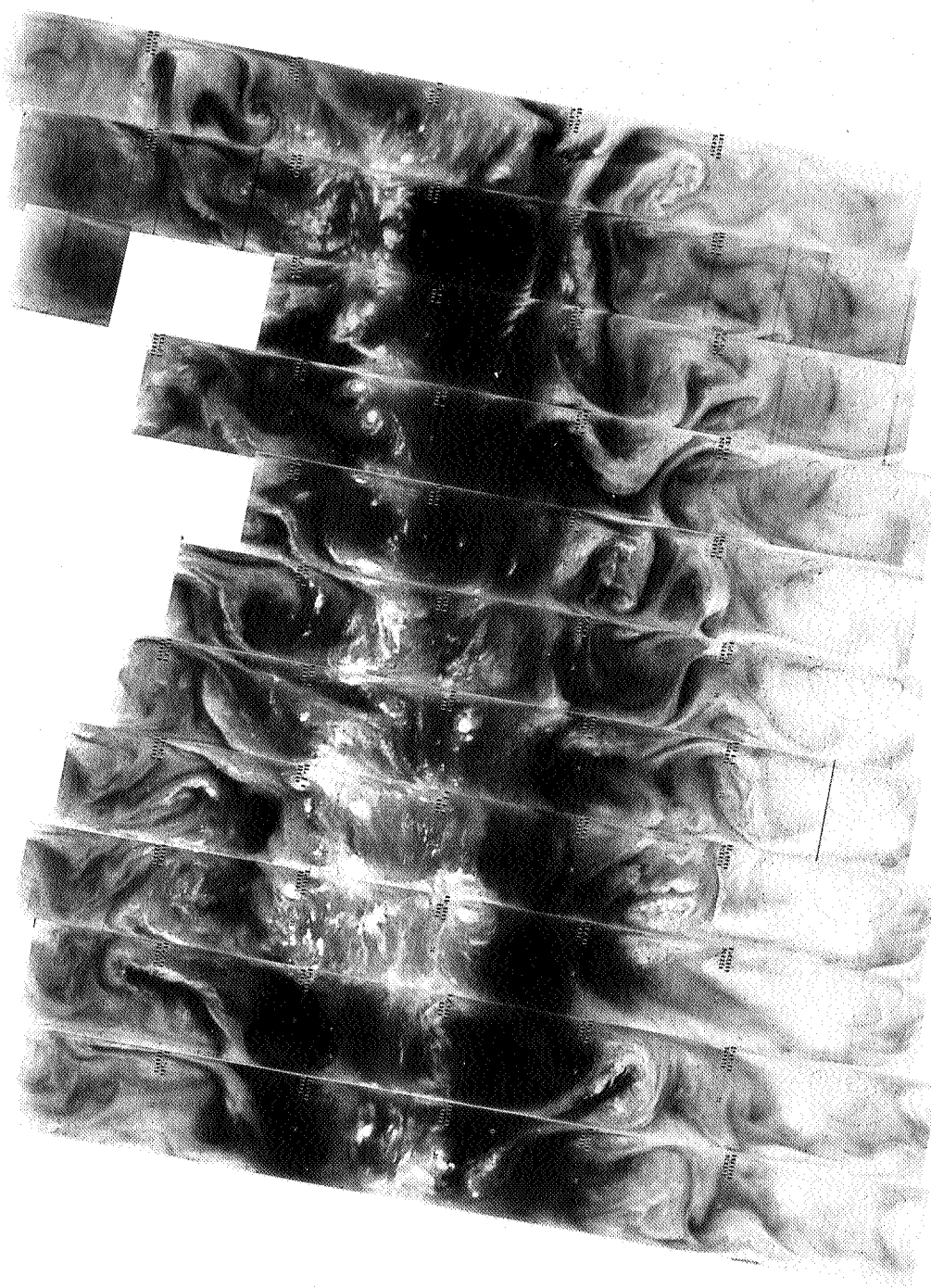
8318 8317 8316 8315 8314 8313 8312 8311 8310 8309 8308 8307 8306

22 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



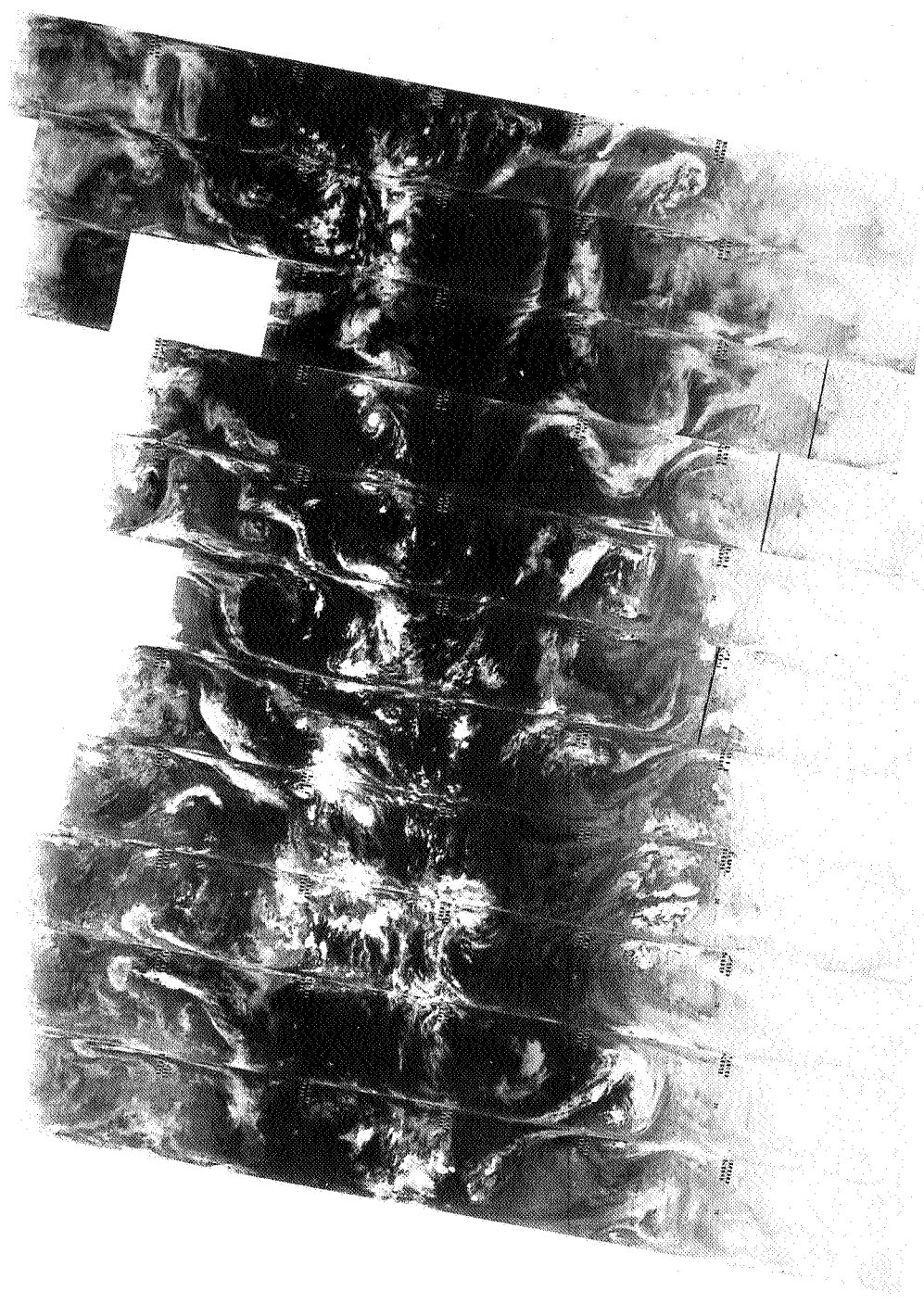
8331 8330 8329 8328 8327 8326 8325 8324 8323 8322 8321 8320 8319

23 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



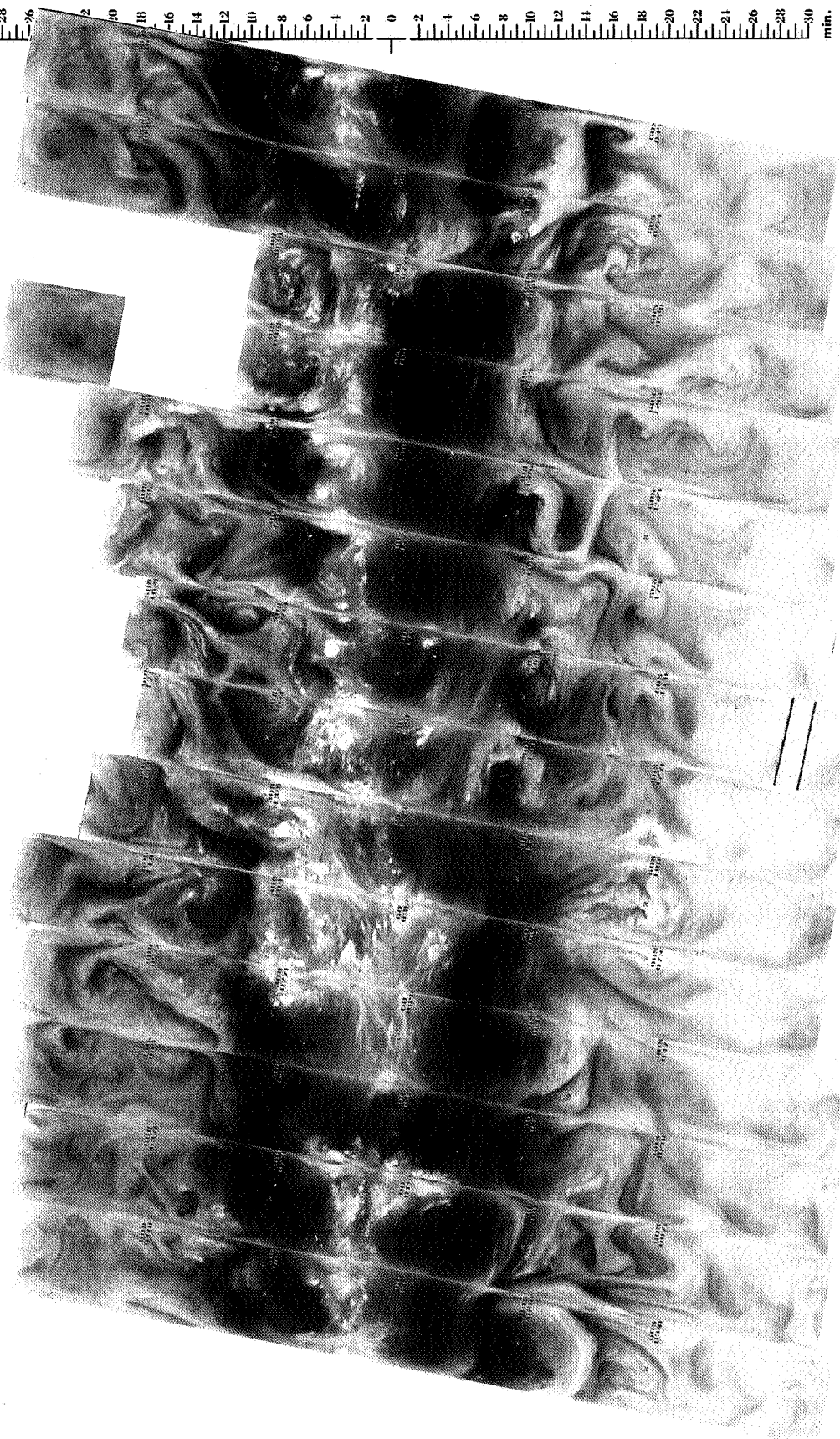
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8331 8330 8329 8328 8327 8326 8325 8324 8323 8322 8321 8320 8319

23 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8345 8344 8343 8342 8341 8340 8339 8338 8337 8336 8335 8334 8333 8332

24 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8345 8344 8343 8342 8341 8340 8339 8338 8337 8336 8335 8334 8333 8332

24 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8358 8357 8356 8355 8354 8353 8352 8351 8350 8349 8348 8347 8346

25 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8358 8357 8356 8355 8354 8353 8352 8351 8350 8349 8348 8347 8346

25 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8372 8371 8370 8369 8368 8367 8366 8365 8364 8363 8362 8361 8360 8359

26 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



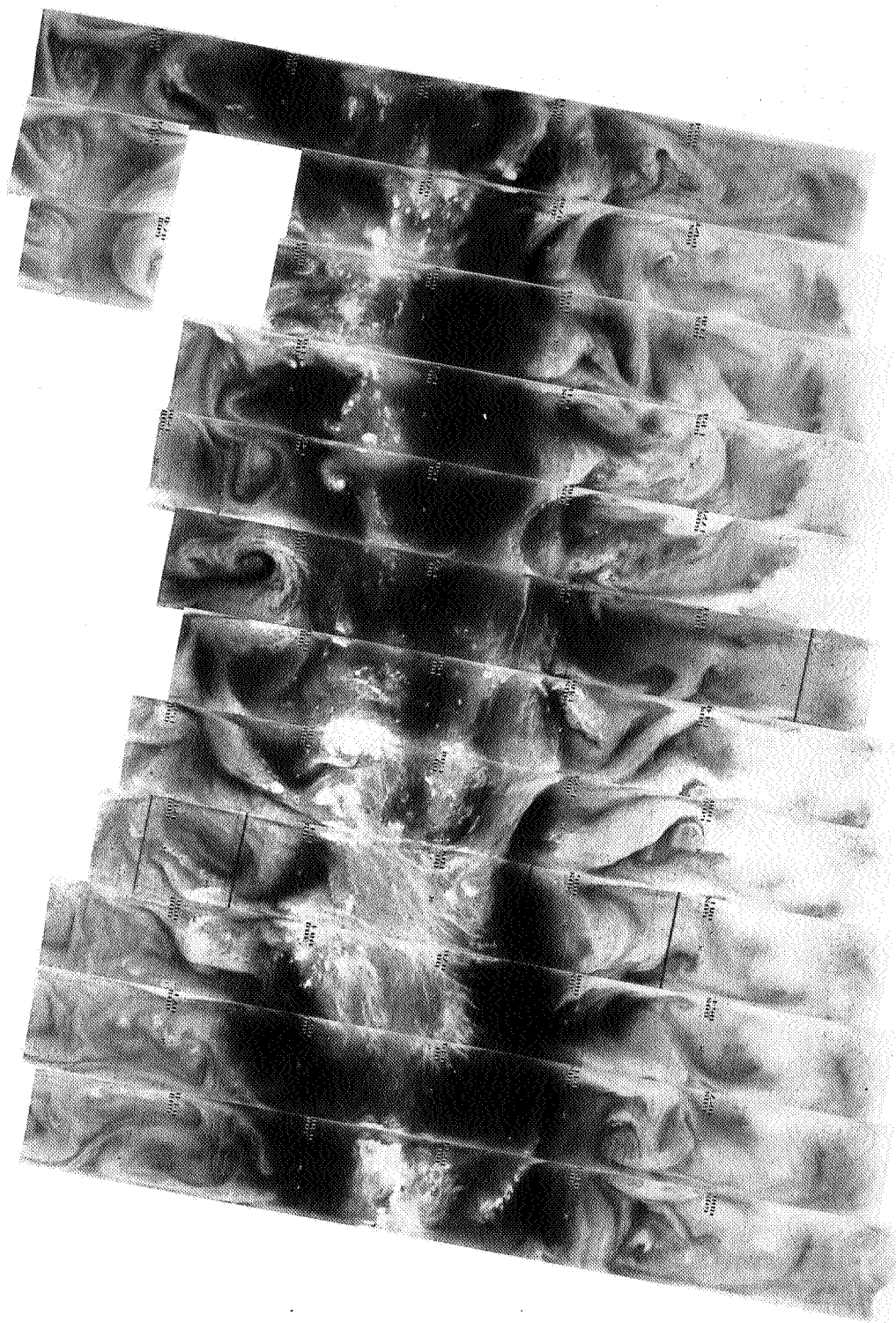
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8372 8371 8370 8369 8368 8367 8366 8365 8364 8363 8362 8361 8360 8359

26 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8385 8384 8383 8382 8381 8380 8379 8378 8377 8376 8375 8374 8373

27 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



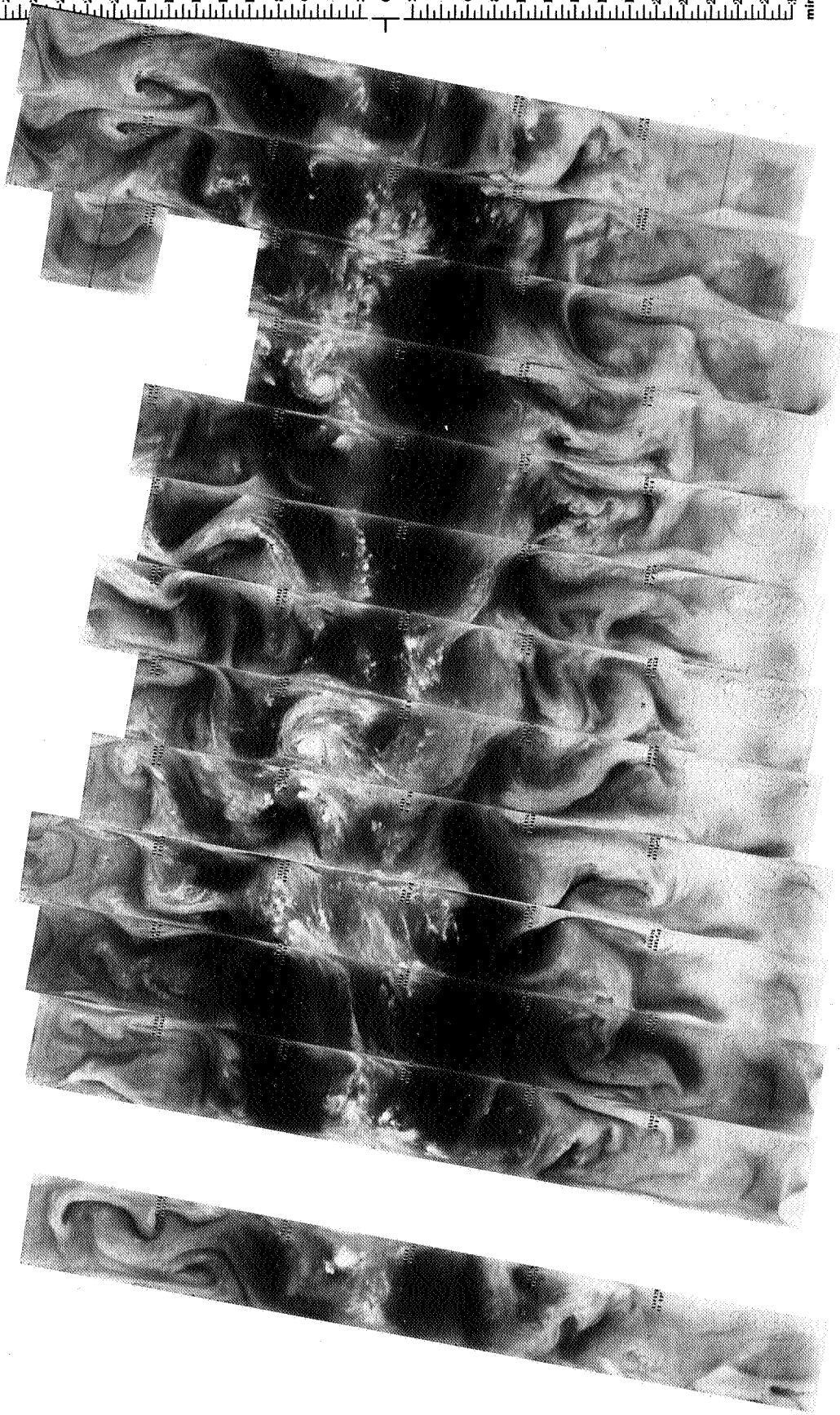
8385 8384 8383 8382 8381 8380 8379 8378 8377 8376 8375 8374 8373

27 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



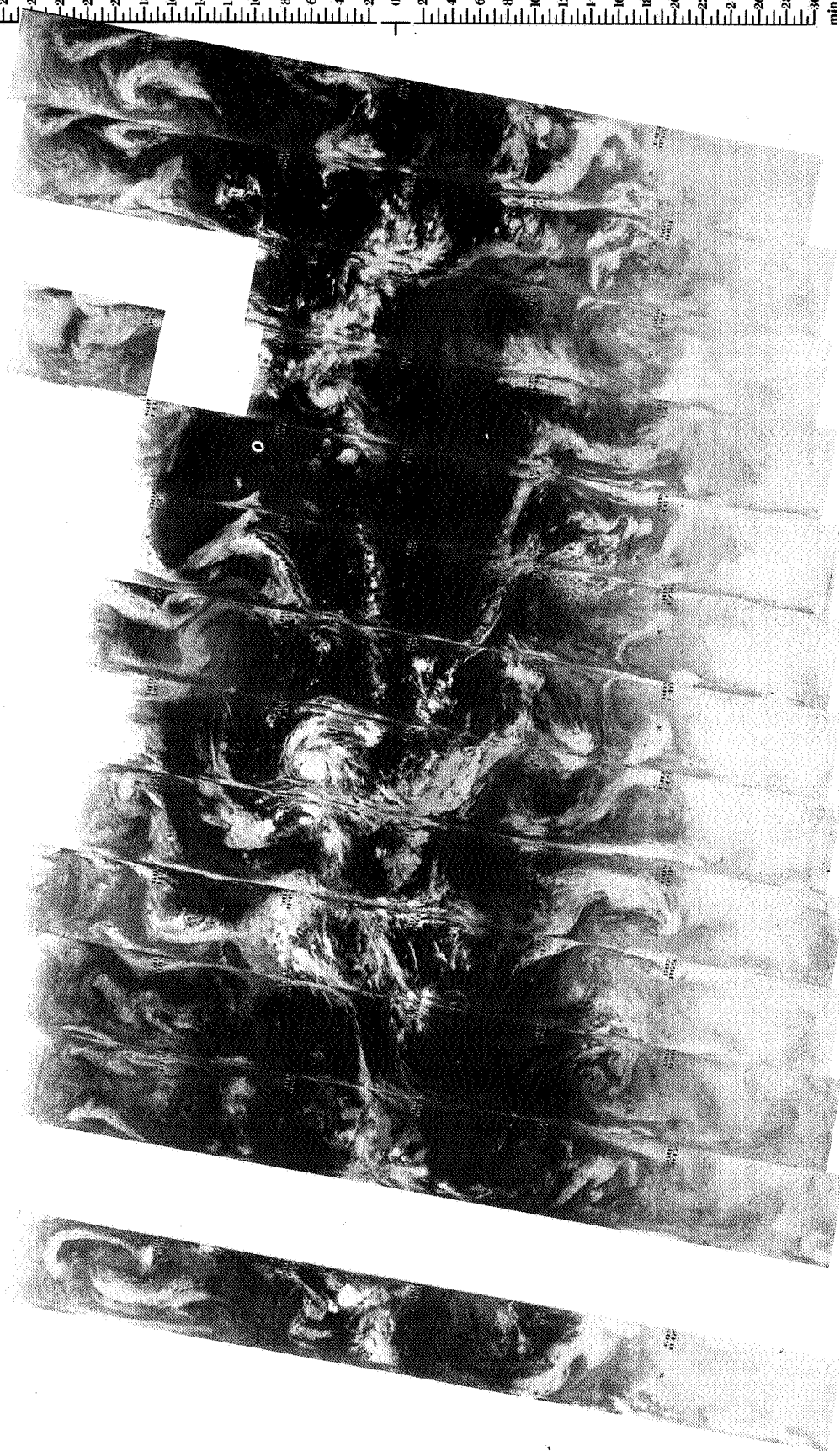
8399 8398 8397 8396 8395 8394 8393 8392 8391 8390 8389 8388 8387 8386

28 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



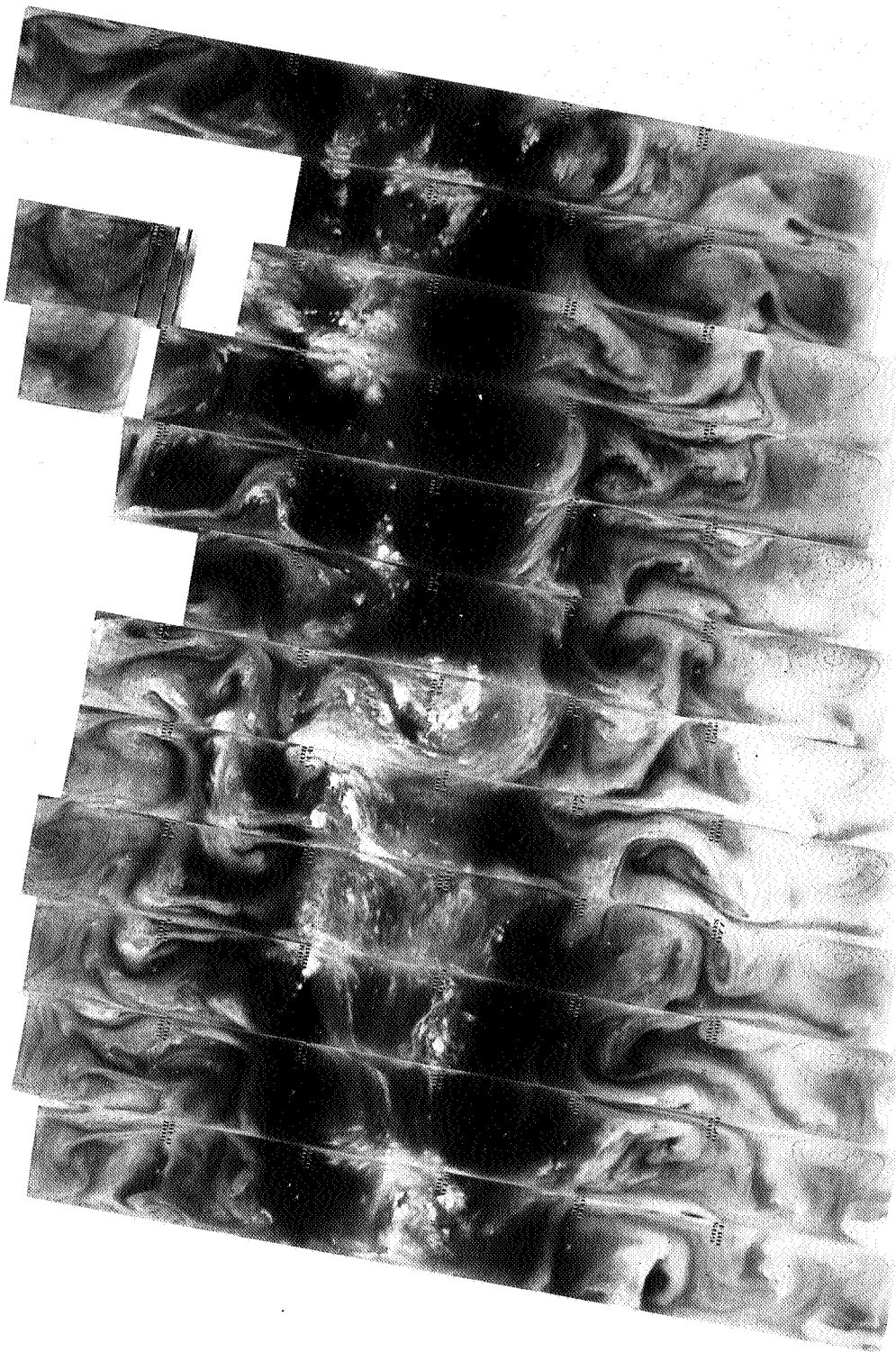
8399 8398 8397 8396 8395 8394 8393 8392 8391 8390 8389 8388 8387 8386

28 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8412 8411 8410 8409 8408 8407 8406 8405 8404 8403 8402 8401 8400

29 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

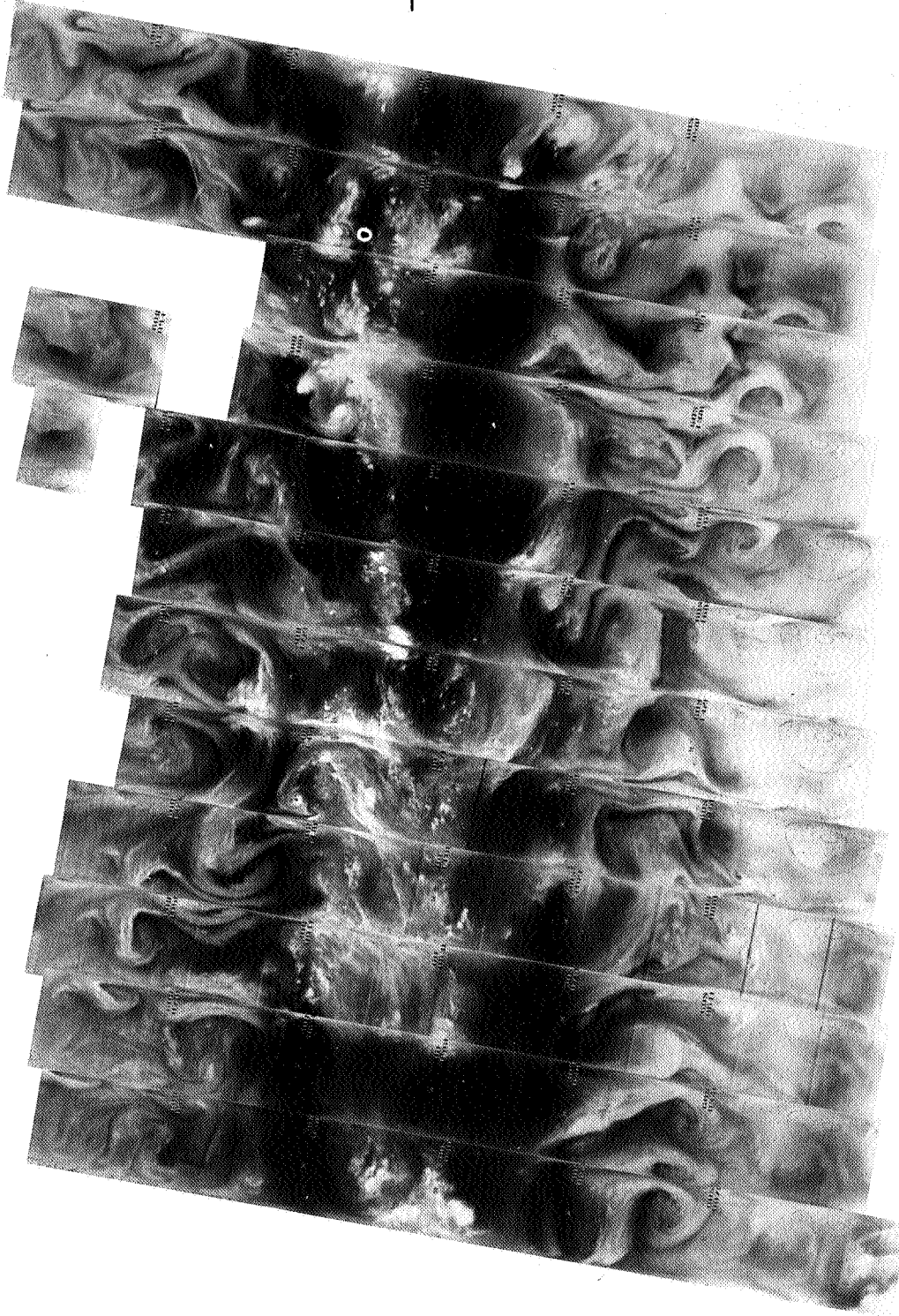
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8412 8411 8410 8409 8408 8407 8406 8405 8404 8403 8402 8401 8400
29 AUGUST 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



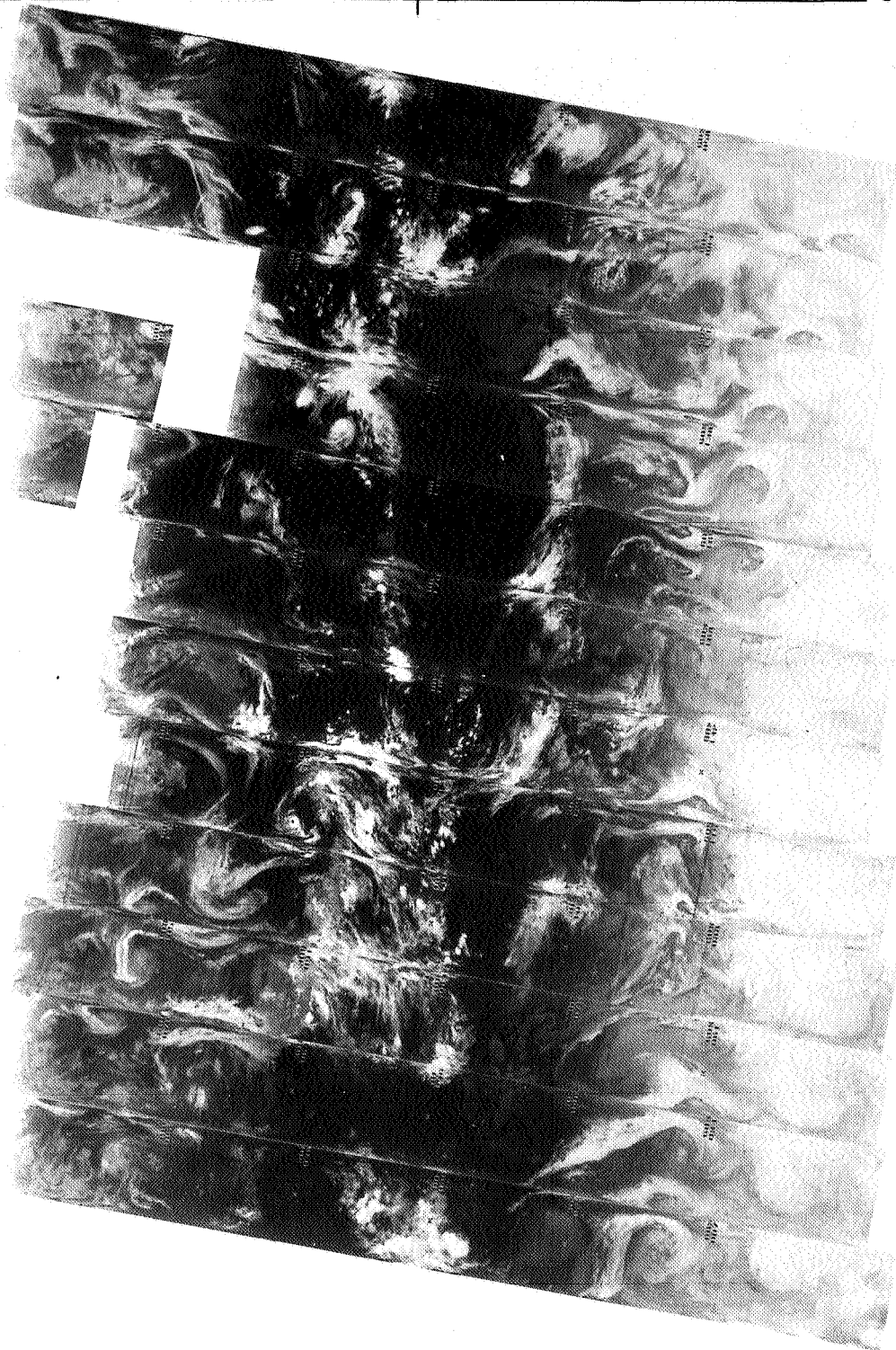
8425 8424 8423 8422 8421 8420 8419 8418 8417 8416 8415 8414 8413

30 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



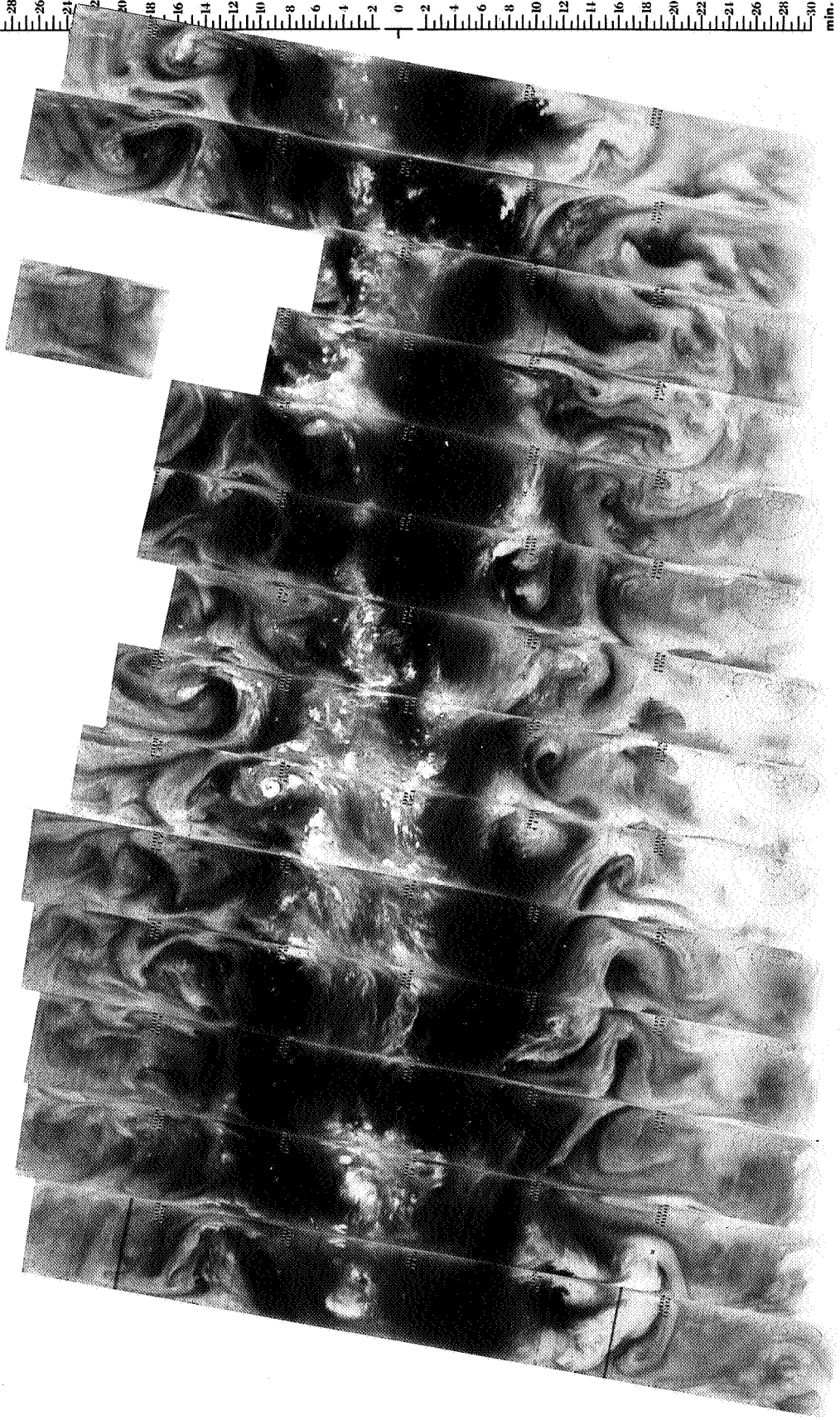
8425 8424 8423 8422 8421 8420 8419 8418 8417 8416 8415 8414 8413

30 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8439 8438 8437 8436 8435 8434 8433 8432 8431 8430 8429 8428 8427 8426

31 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



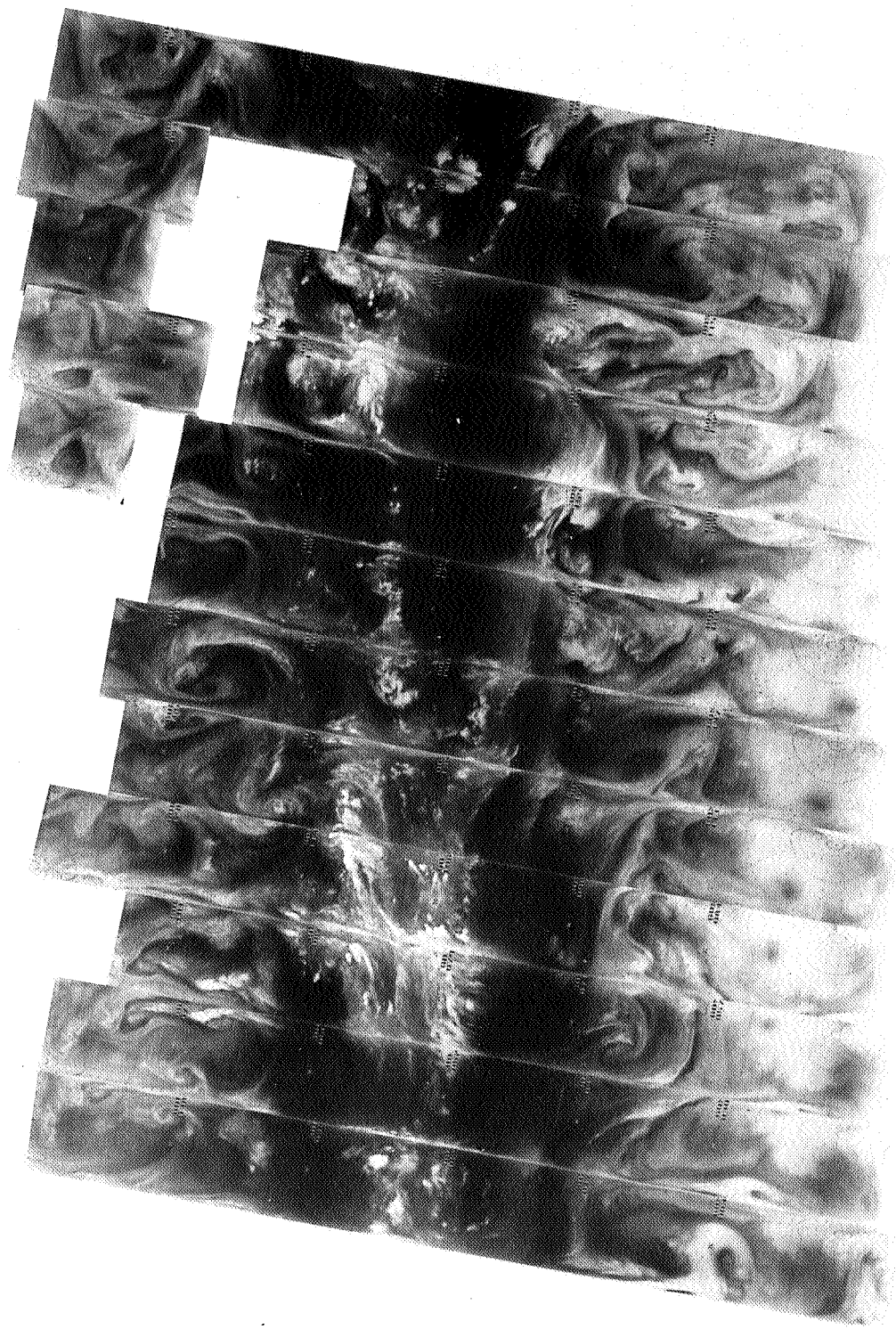
8439 8438 8437 8436 8435 8434 8433 8432 8431 8430 8429 8428 8427 8426

31 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



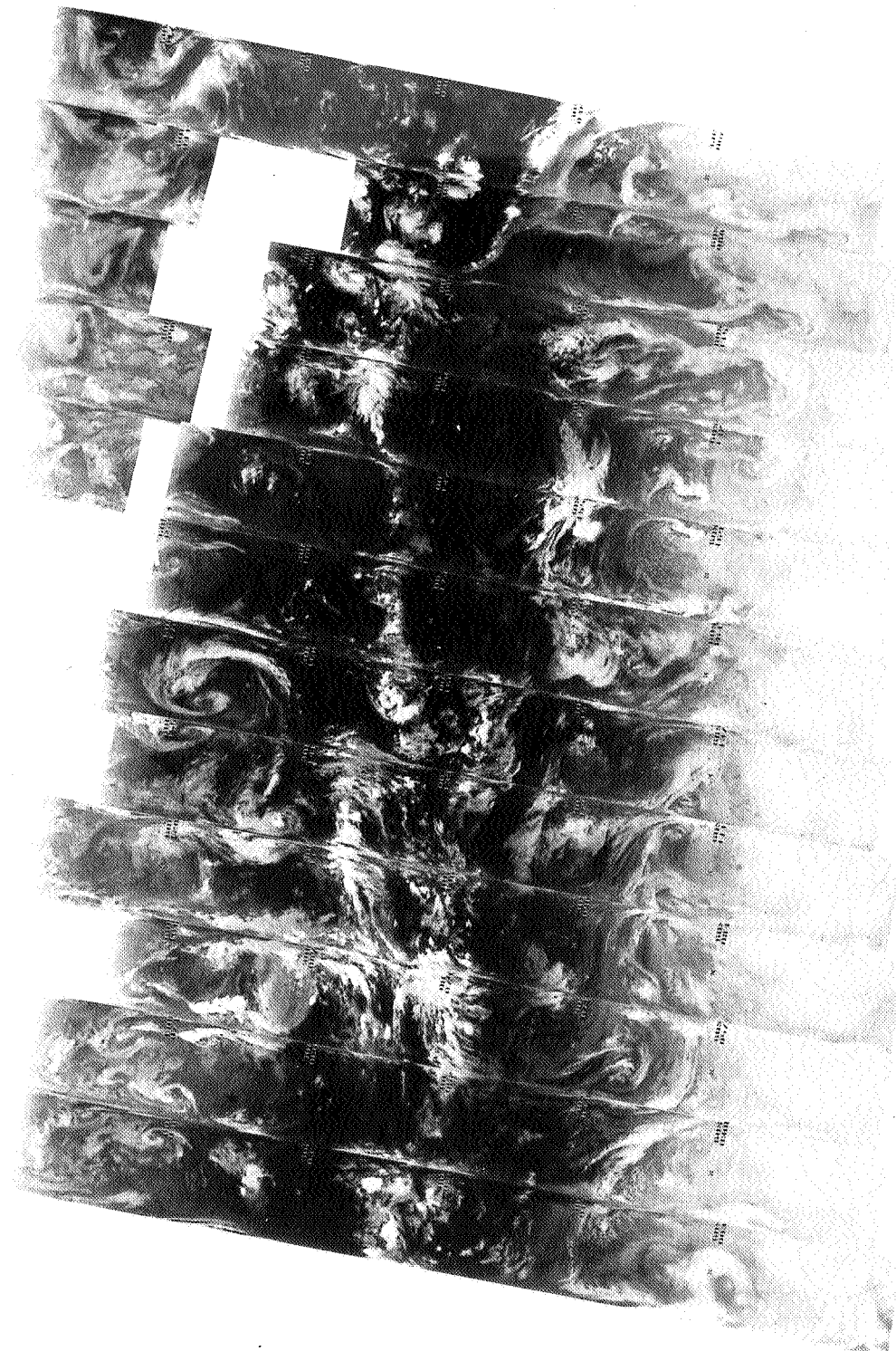
8452 8451 8450 8449 8448 8447 8446 8445 8444 8443 8442 8441 8440

1 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



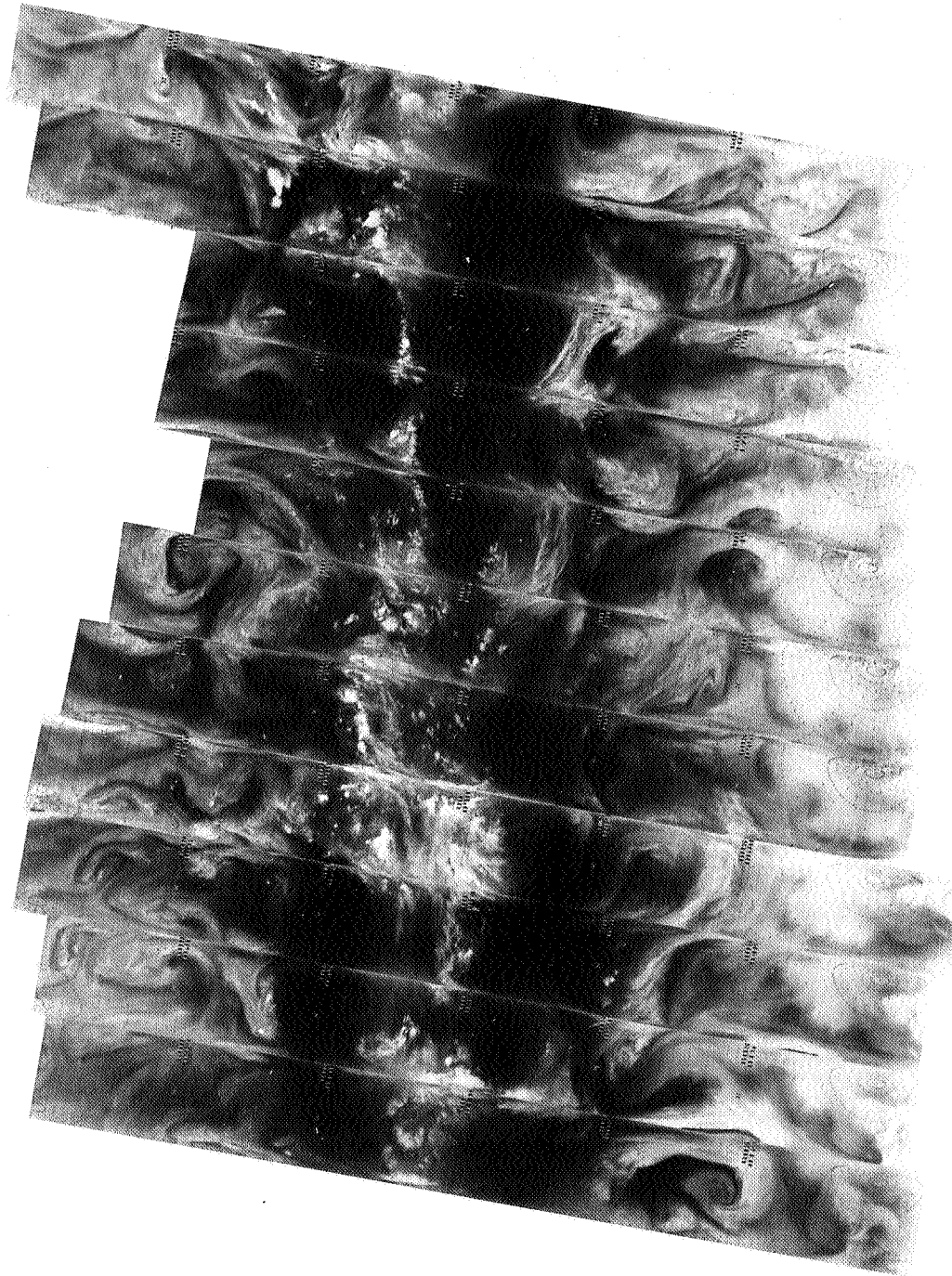
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8452 8451 8450 8449 8448 8447 8446 8445 8444 8443 8442 8441 8440

1 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



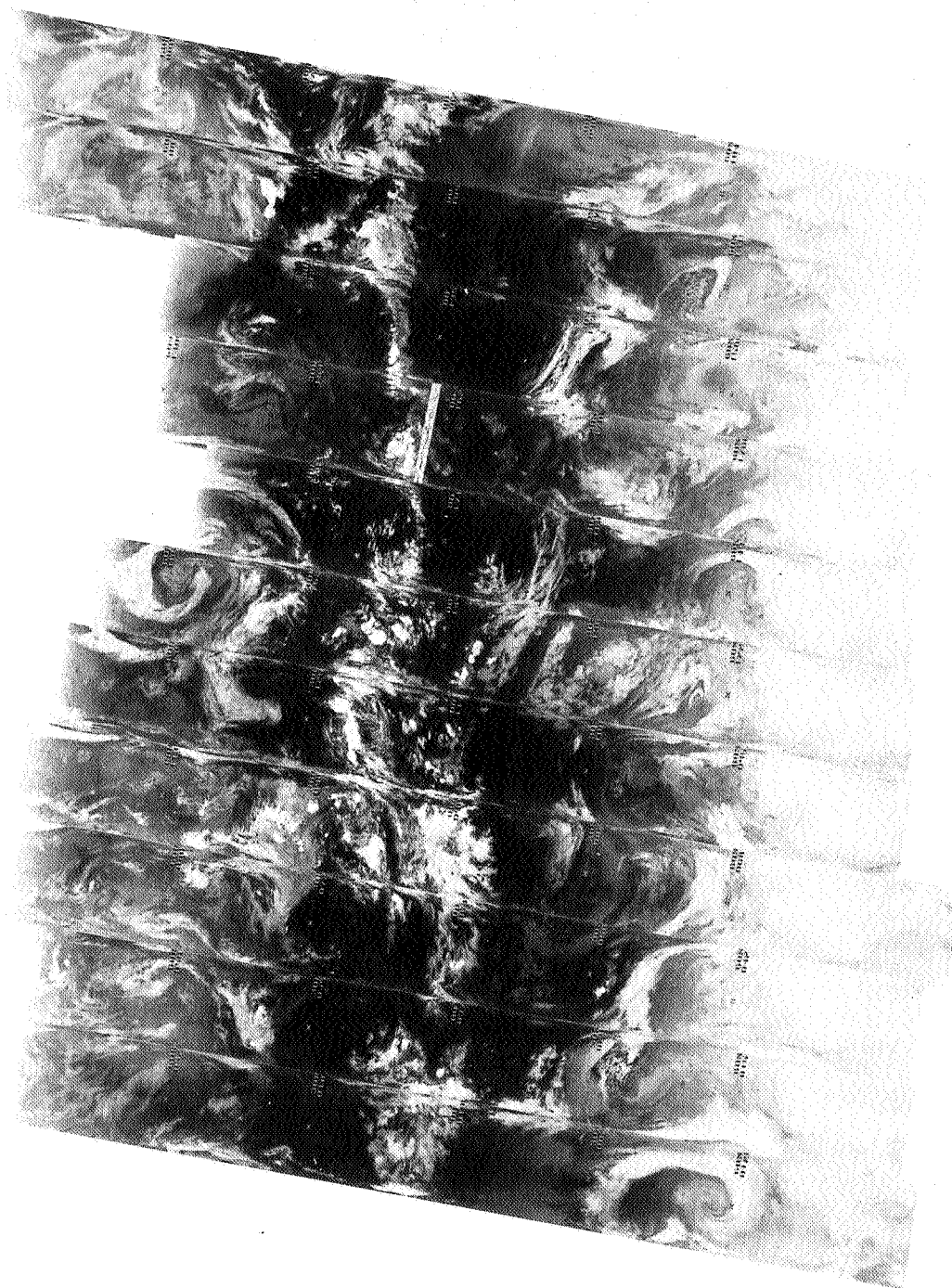
8466 8465 8464 8463 8462 8461 8460 8459 8458 8457 8456 8455 8454 8453

2 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



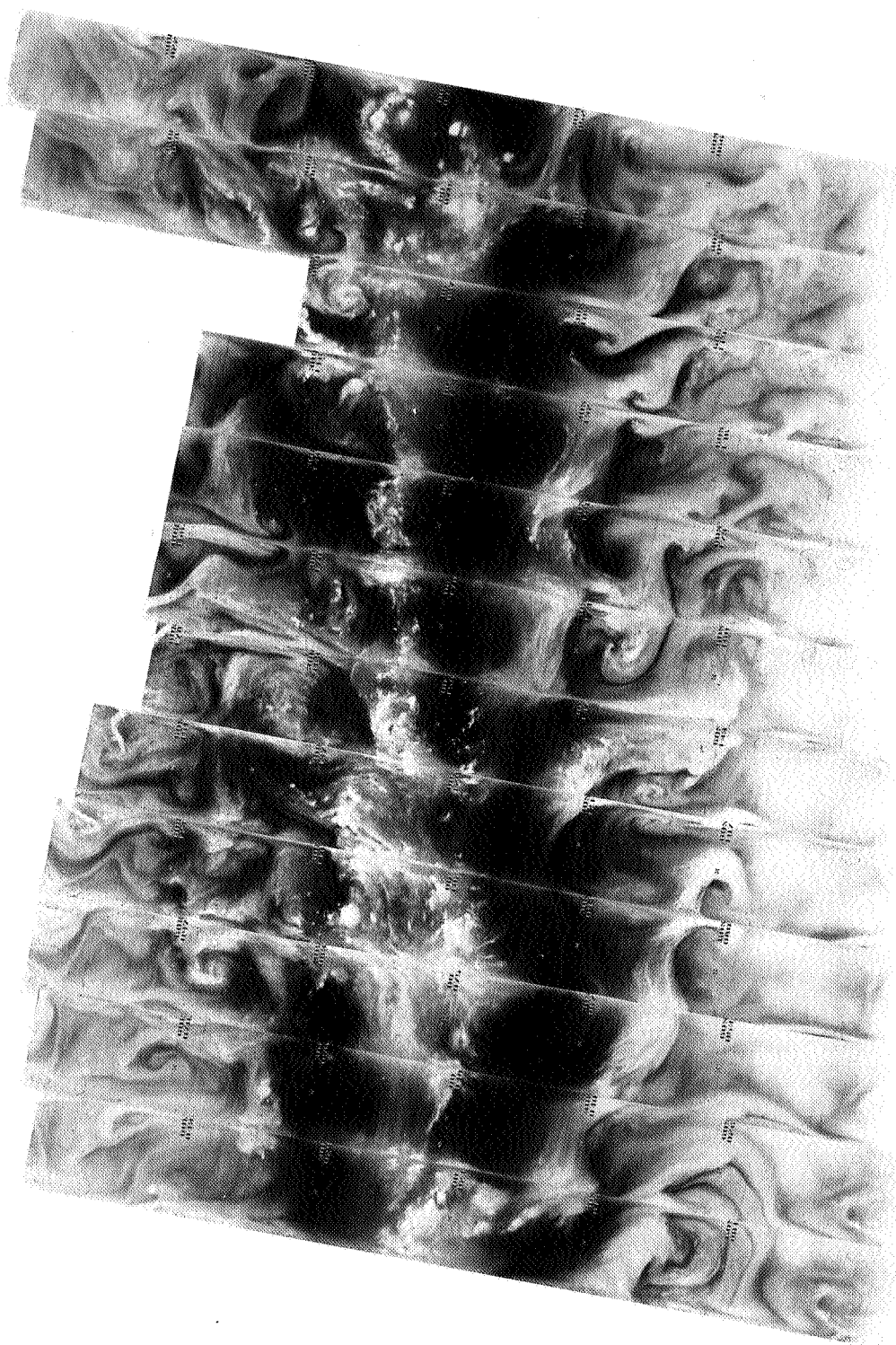
8466 8465 8464 8463 8462 8461 8460 8459 8458 8457 8456 8455 8454 8453

2 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

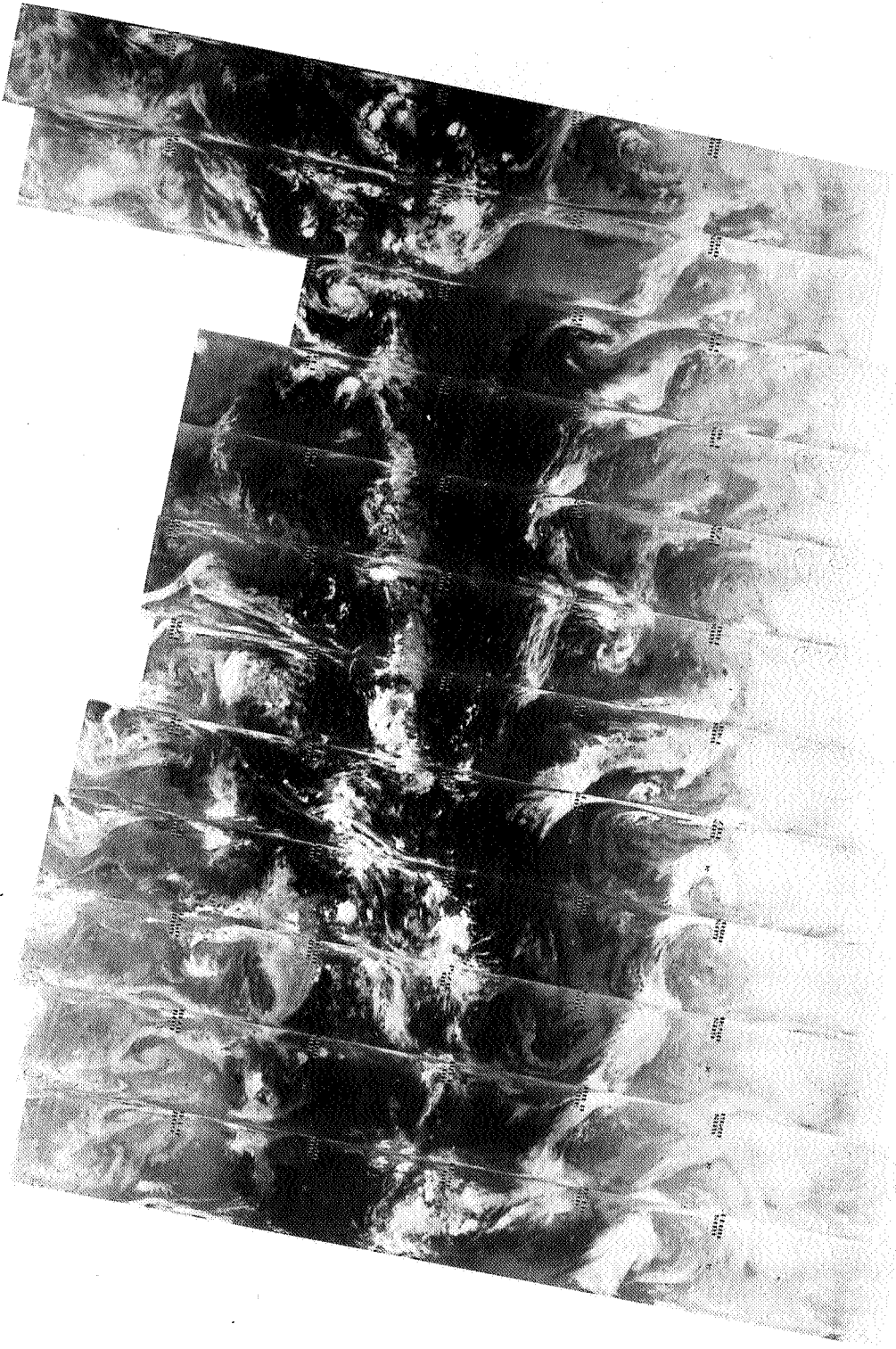
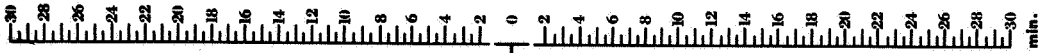
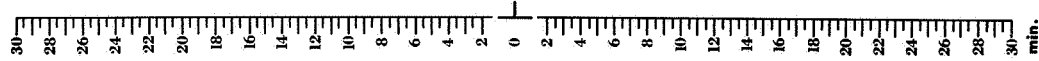


8479 8478 8477 8476 8475 8474 8473 8472 8471 8470 8469 8468 8467

3 SEPTEMBER 1974

6.7 μ m

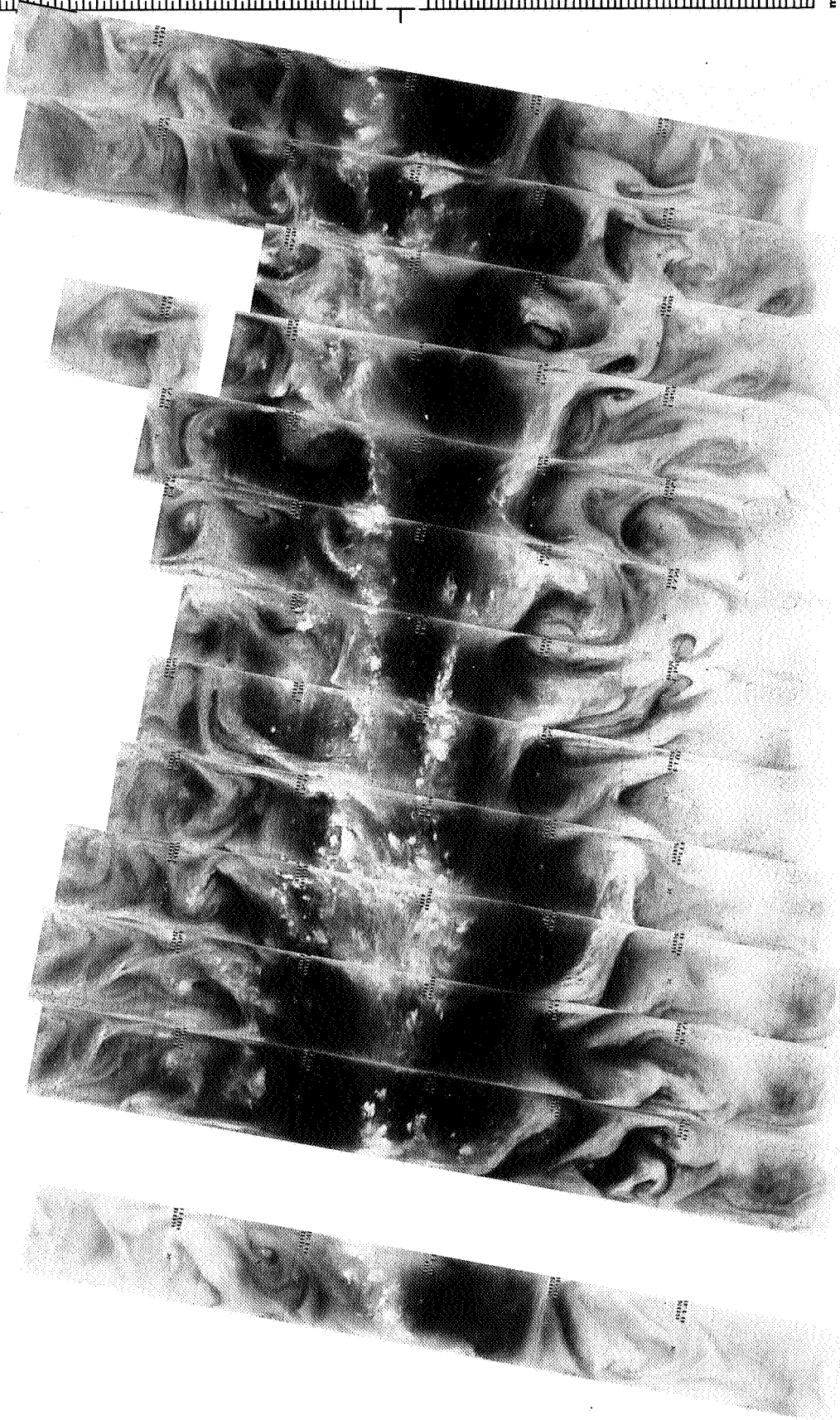
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8479 8478 8477 8476 8475 8474 8473 8472 8471 8470 8469 8468 8467

3 SEPTEMBER 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



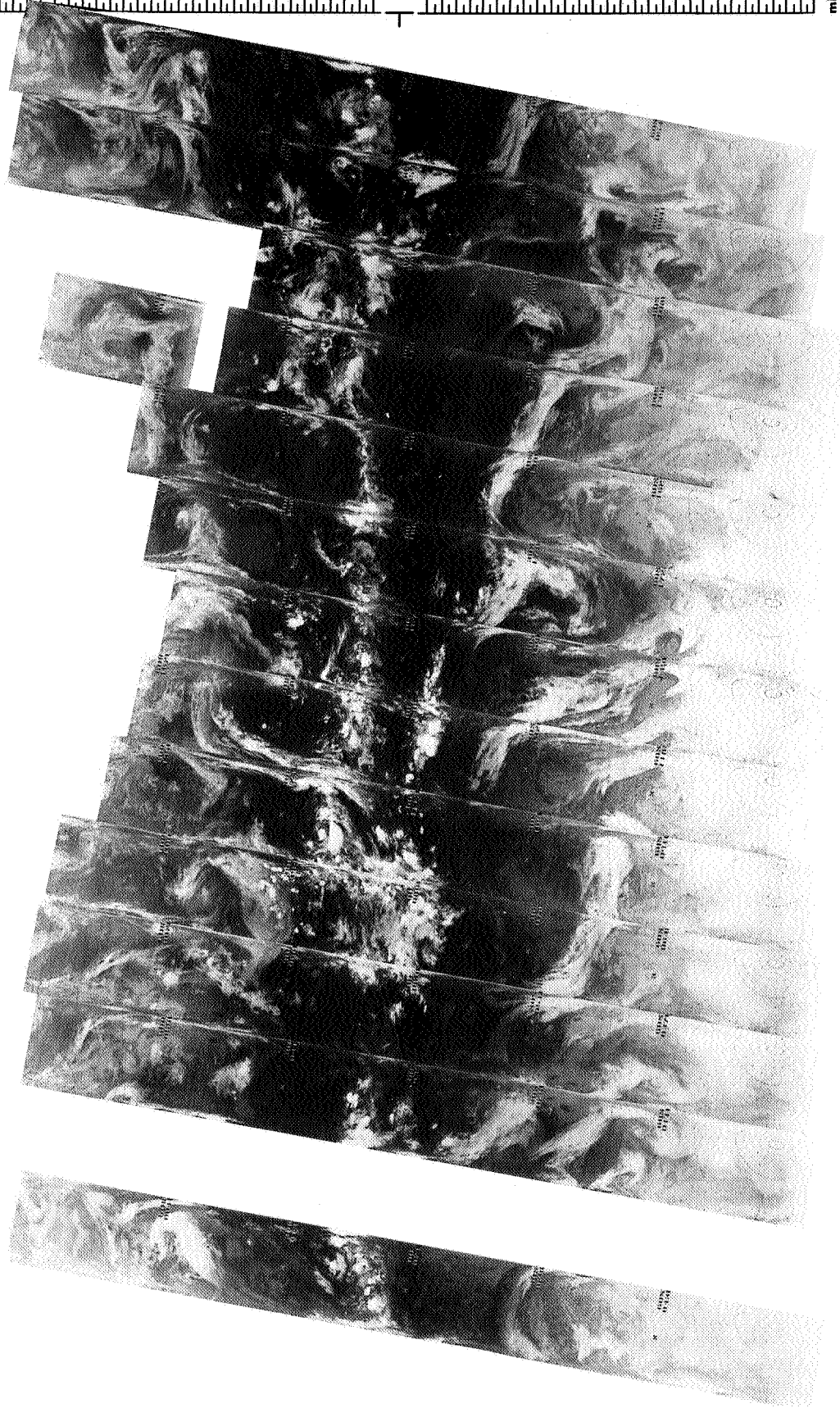
8493 8492 8491 8490 8489 8488 8487 8486 8485 8484 8483 8482 8481 8480

4 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



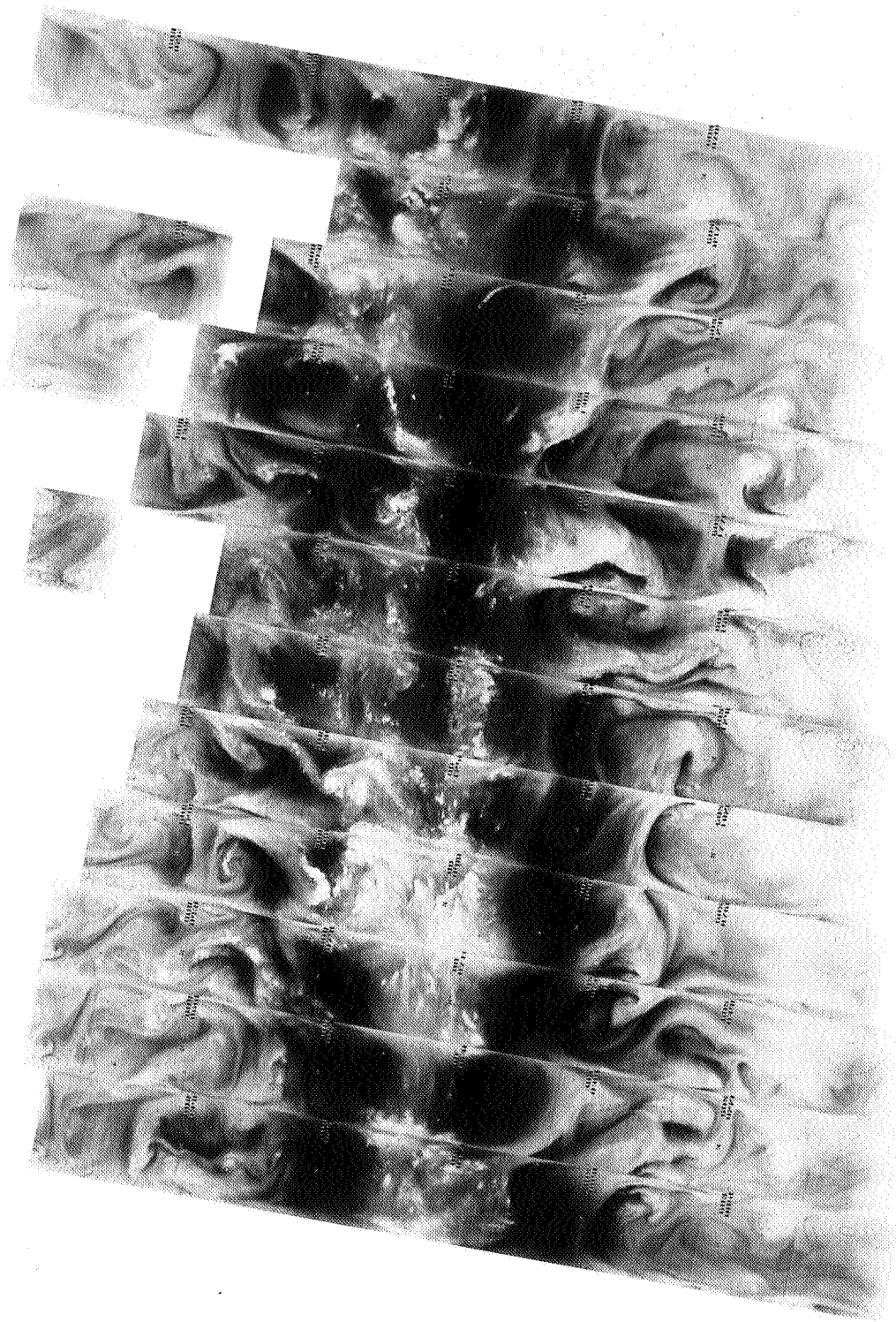
8493 8492 8491 8490 8489 8488 8487 8486 8485 8484 8483 8482 8481 8480

4 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8506 8505 8504 8503 8502 8501 8500 8499 8498 8497 8496 8495 8494

5 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-75

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8506 8505 8504 8503 8502 8501 8500 8499 8498 8497 8496 8495 8494

5 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8519 8518 8517 8516 8515 8514 8513 8512 8511 8510 8509 8508 8507

6 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



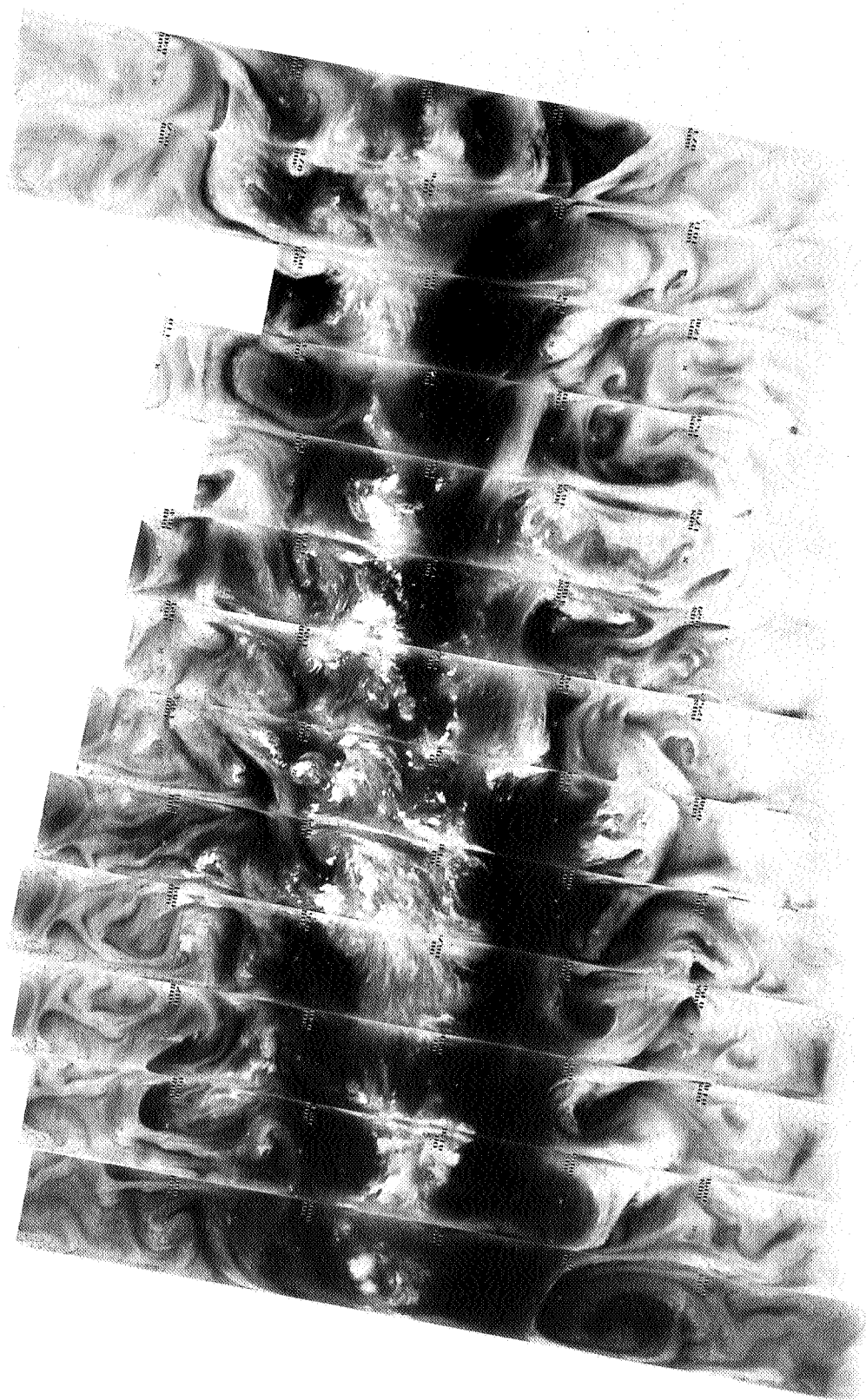
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8519 8518 8517 8516 8515 8514 8513 8512 8511 8510 8509 8508 8507

6 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8533 8532 8531 8530 8529 8528 8527 8526 8525 8524 8523 8522 8521 8520

7 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



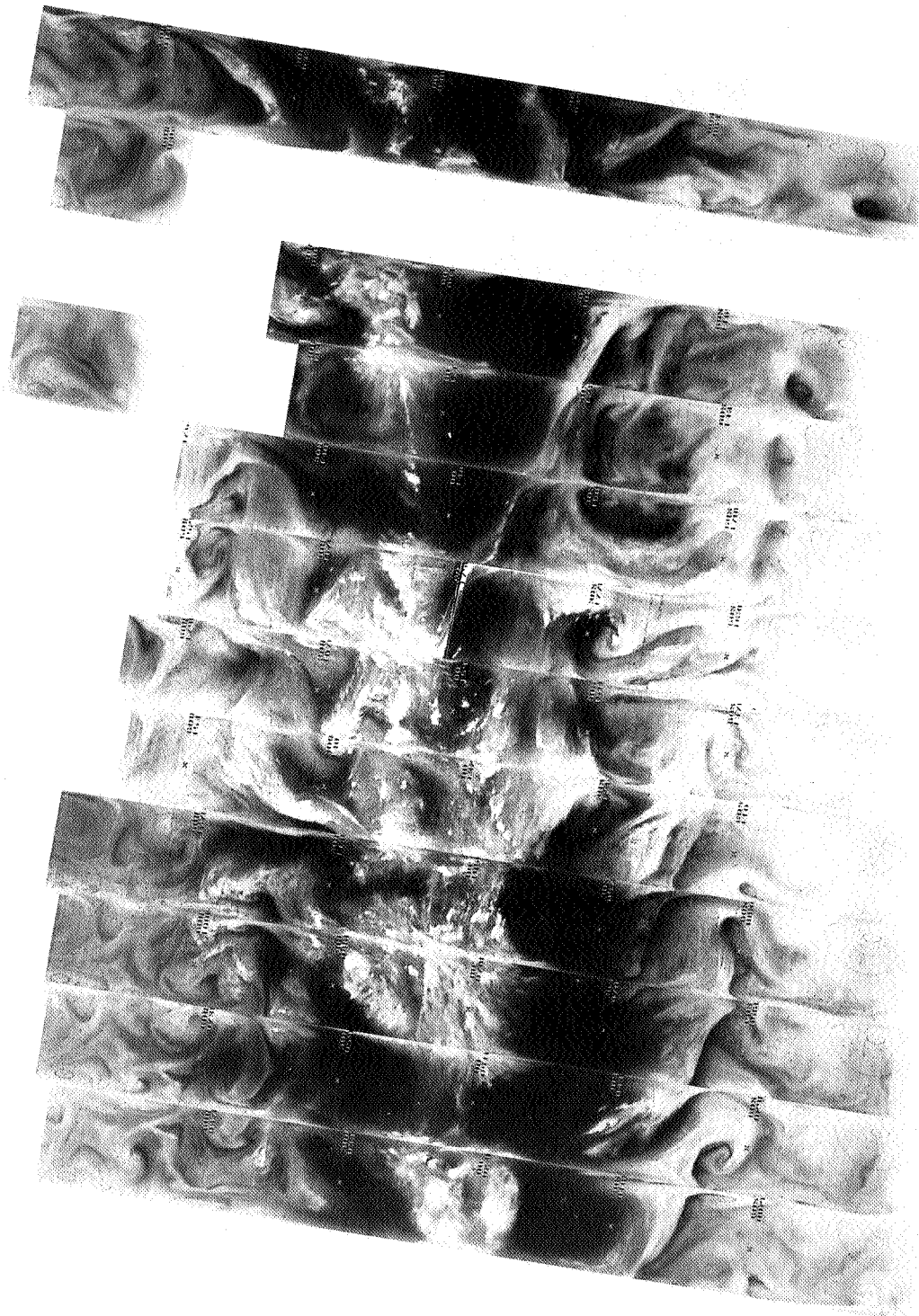
8533 8532 8531 8530 8529 8528 8527 8526 8525 8524 8523 8522 8521 8520

7 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8534

8535

8536

8537

8538

8539

8540

8541

8542

8543

8544

8545

8546

8 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8546 8545 8544 8543 8542 8541 8540 8539 8538 8537 8536 8535 8534

8 SEPTEMBER 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8560 8559 8558 8557 8556 8555 8554 8553 8552 8551 8550 8549 8548 8547

9 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

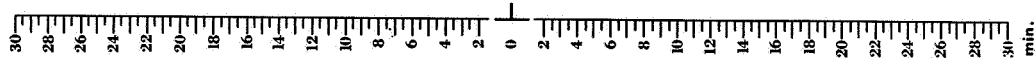


8560 8559 8558 8557 8556 8555 8554 8553 8552 8551 8550 8549 8548 8547

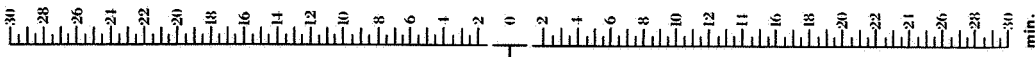
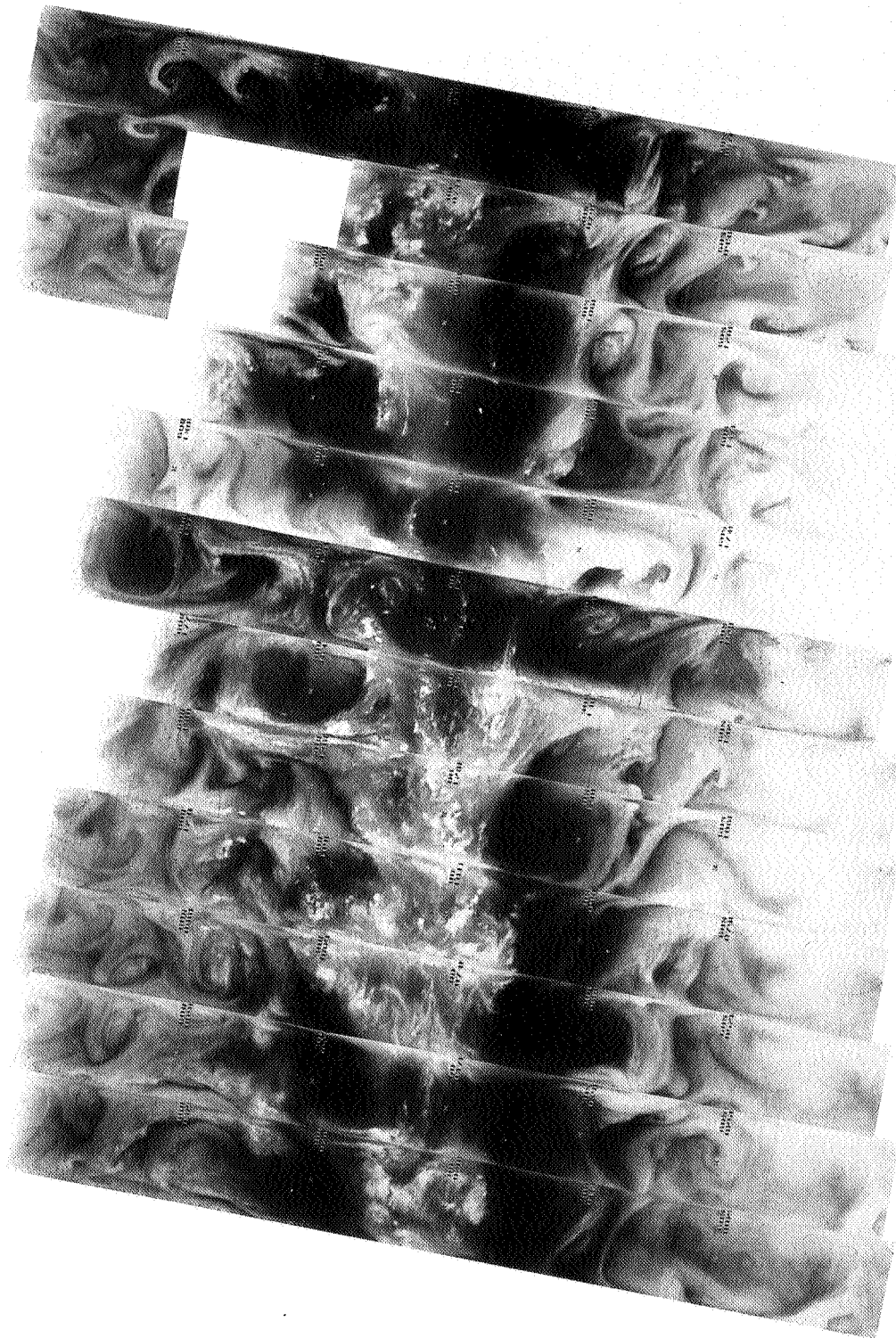
9 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-84

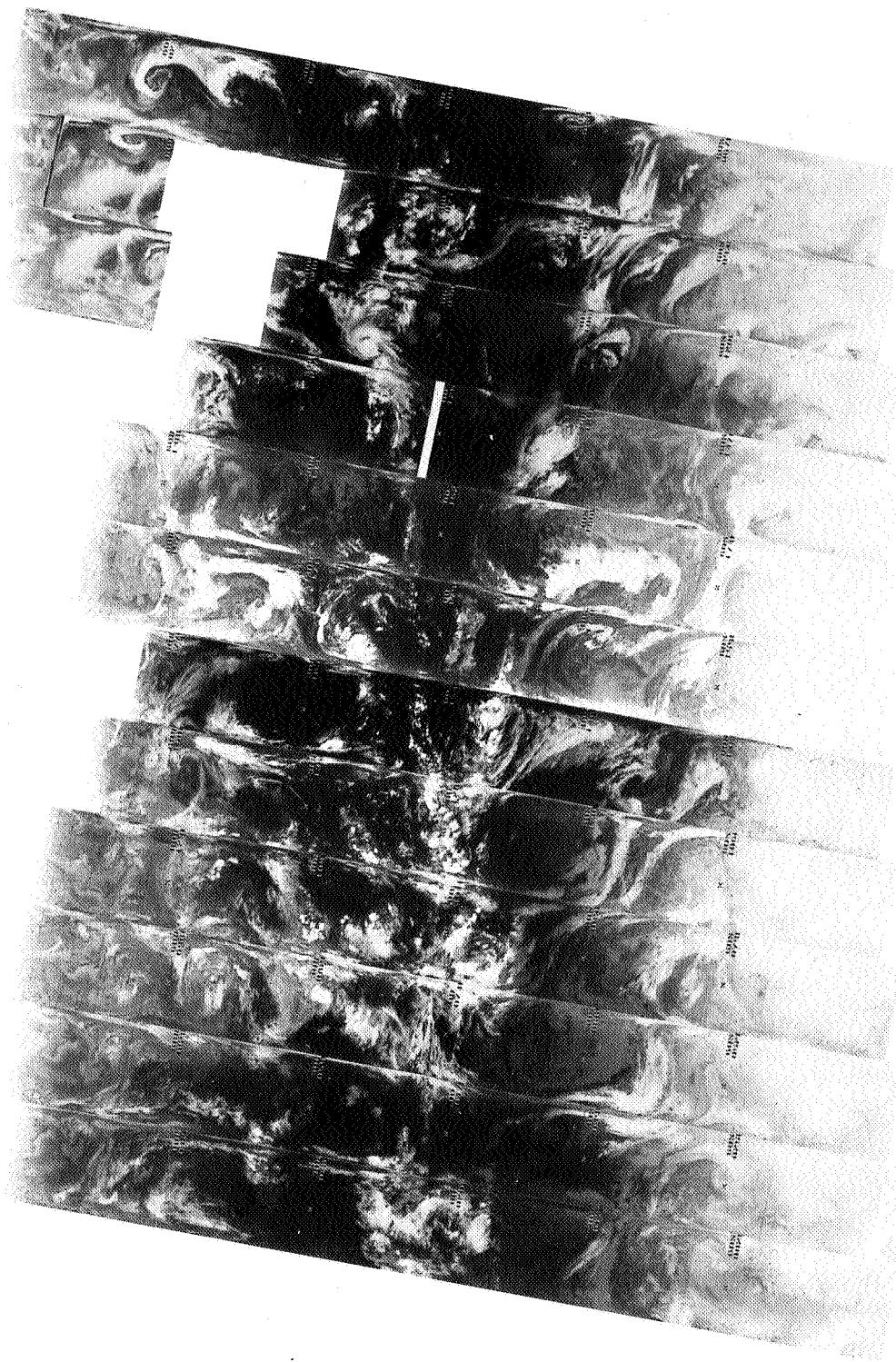


8573 8572 8571 8570 8569 8568 . 8567 8566 8565 8564 8563 8562 8561

10 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

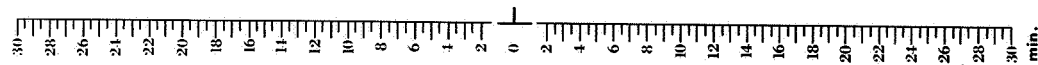


8573 8572 8571 8570 8569 8568 8567 8566 8565 8564 8563 8562 8561

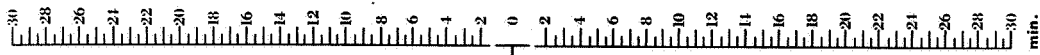
10 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-86

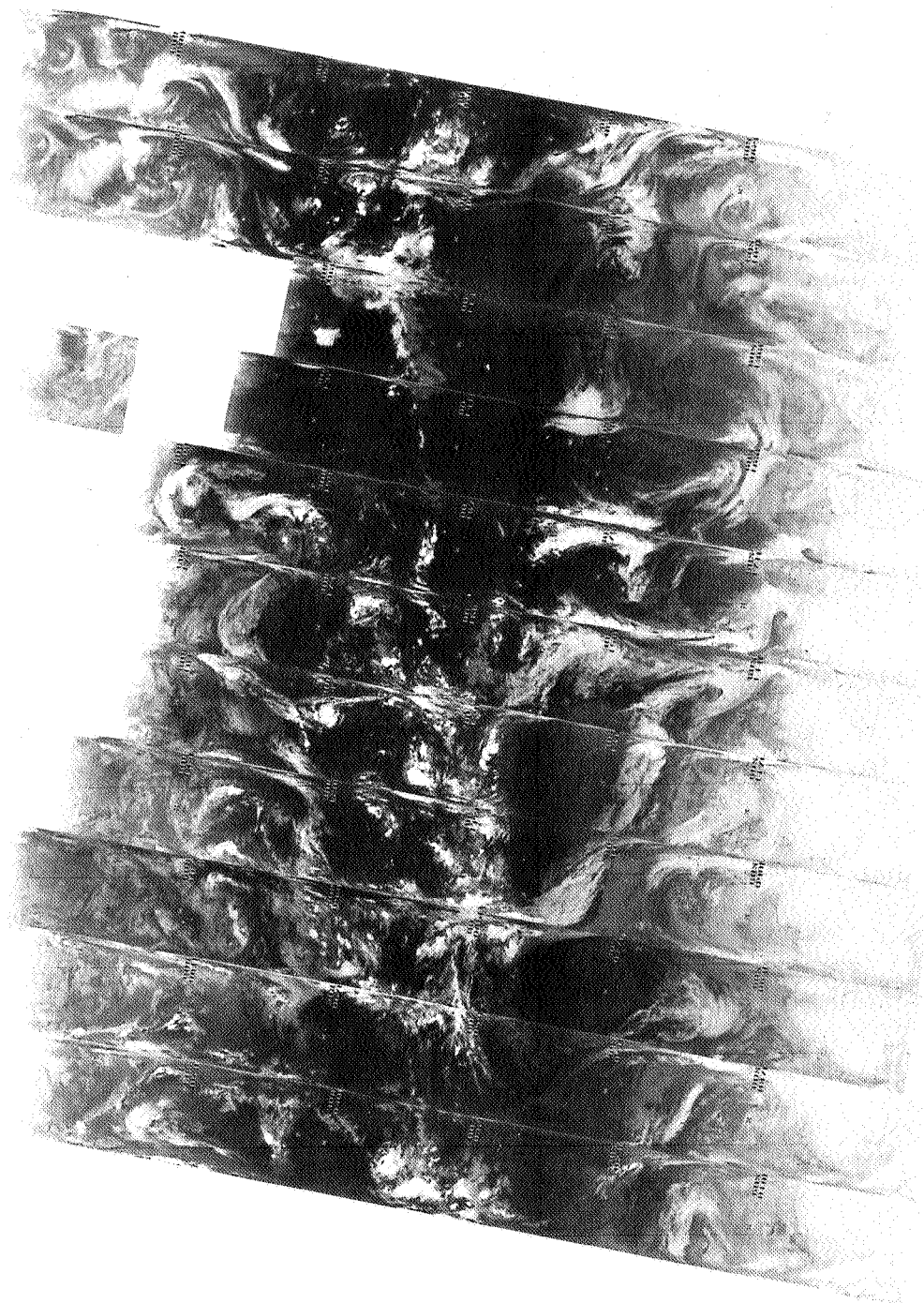


8586 8585 8584 8583 8582 8581 8580 8579 8578 8577 8576 8575 8574

11 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



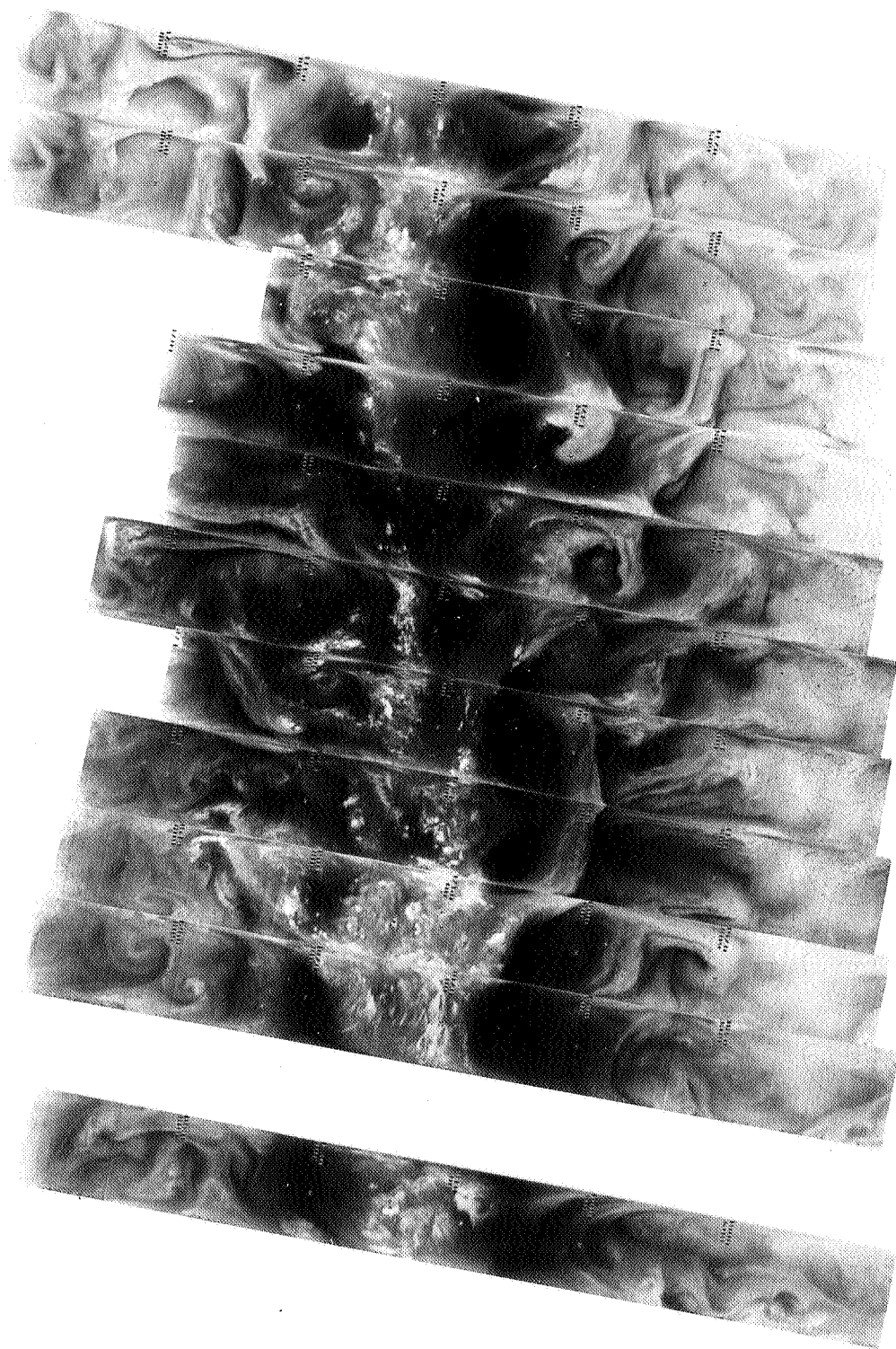
8586 8585 8584 8583 8582 8581 8580 8579 8578 8577 8576 8575 8574

11 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



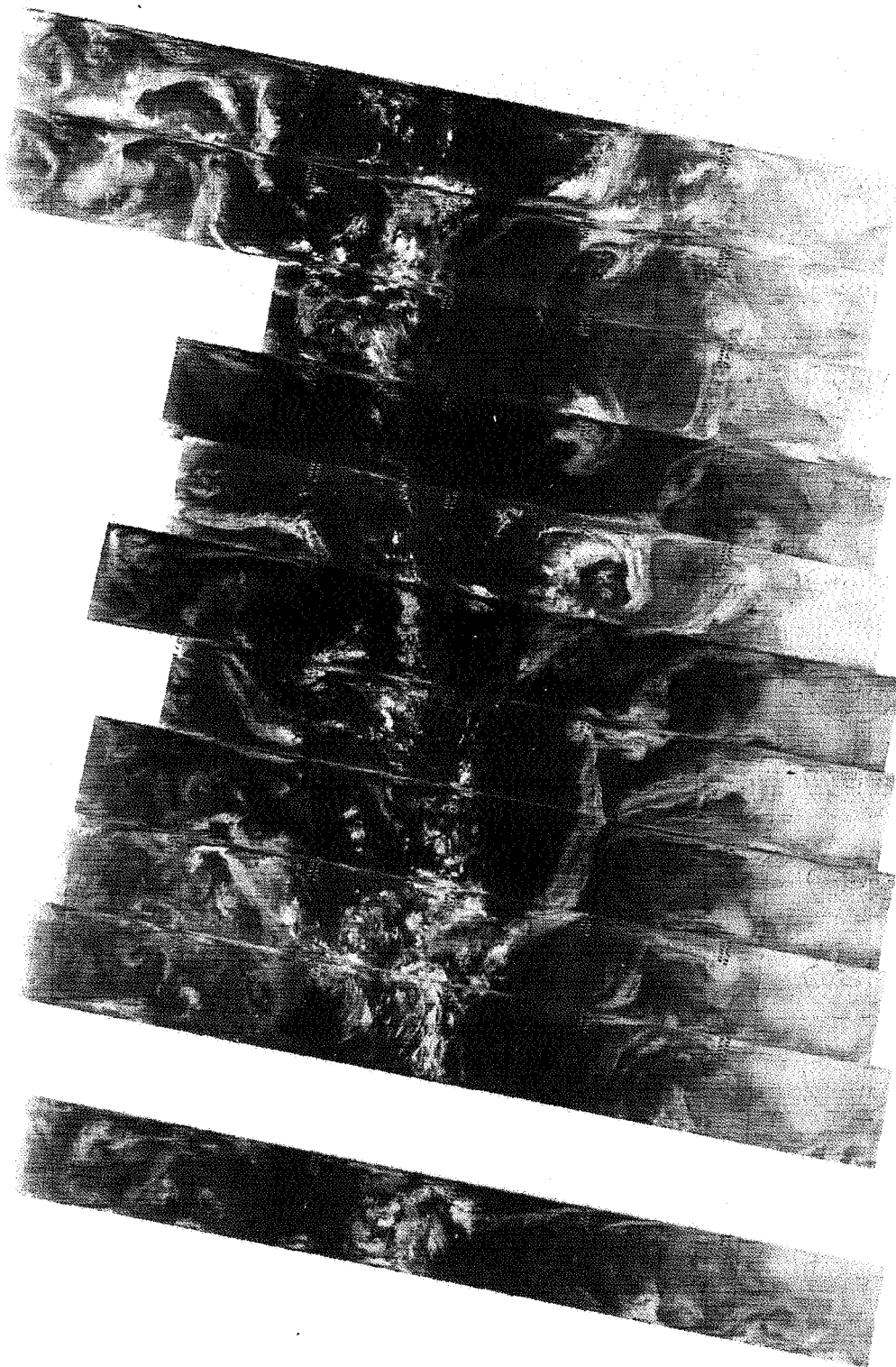
8600 8599 8598 8597 8596 8595 8594 8593 8592 8591 8590 8589 8588 8587

12 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



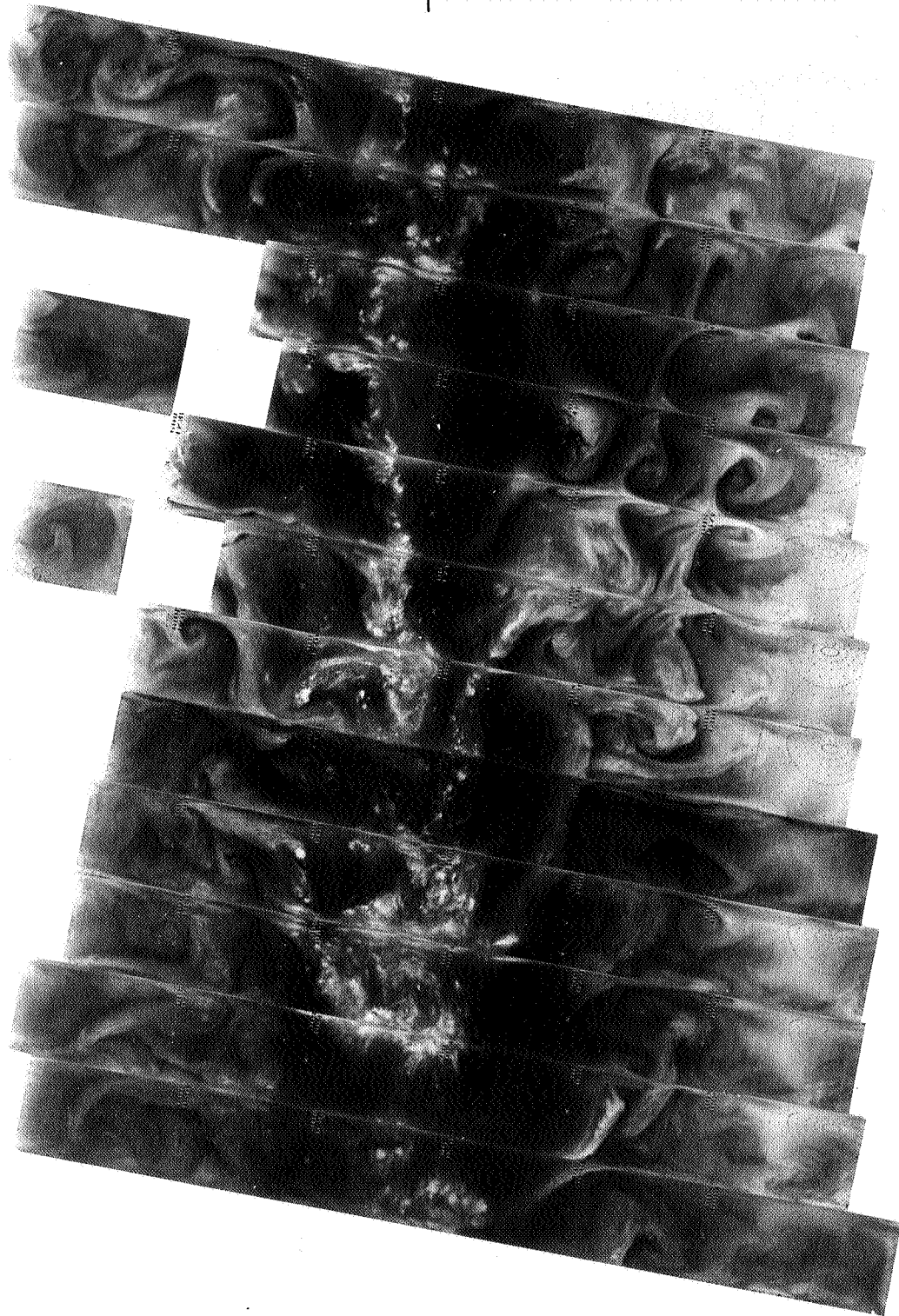
8600 8599 8598 8597 8596 8595 8594 8593 8592 8591 8590 8589 8588 8587

12 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



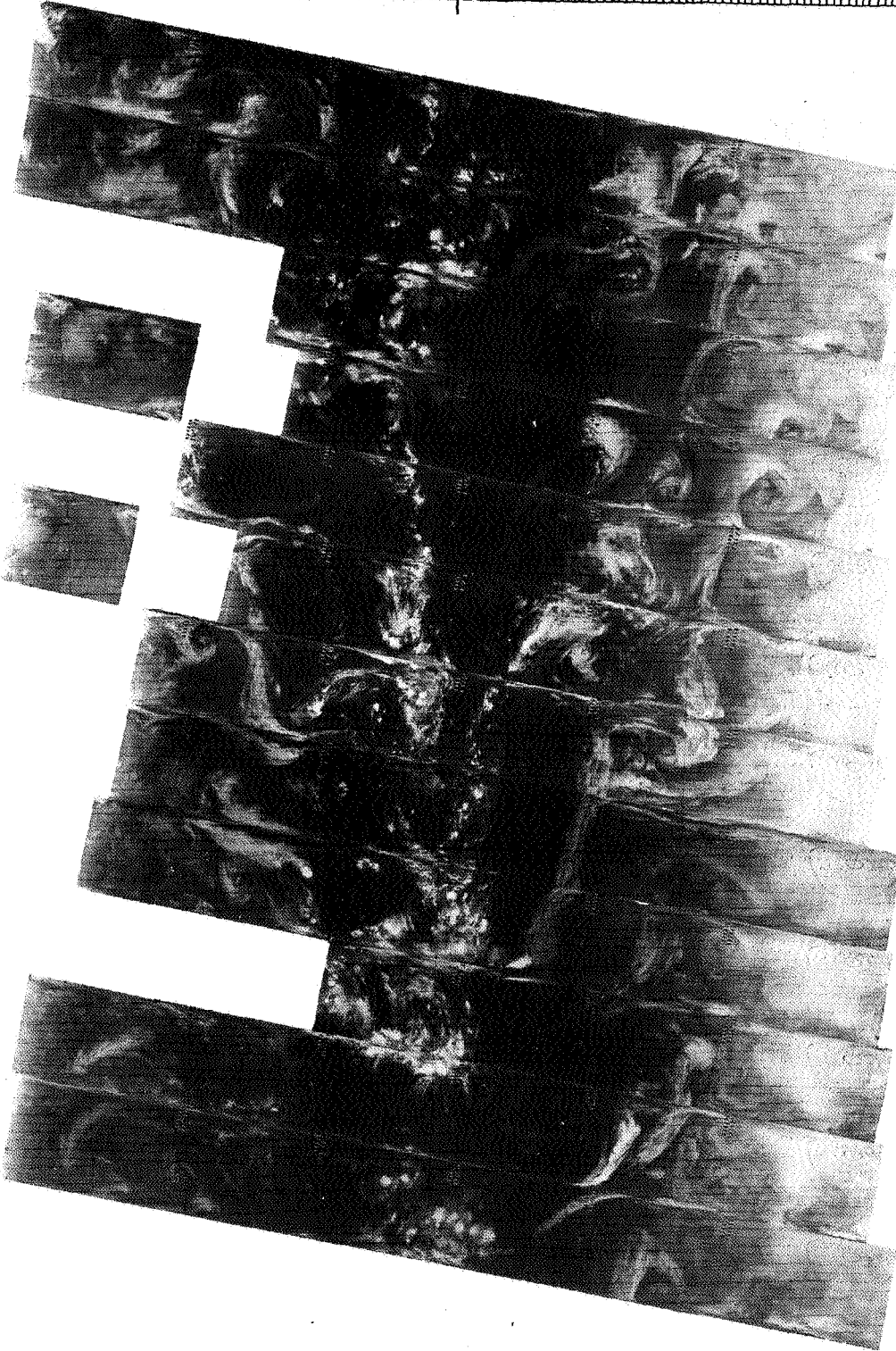
8613 8612 8611 8610 8609 8608 8607 8606 8605 8604 8603 8602 8601

13 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

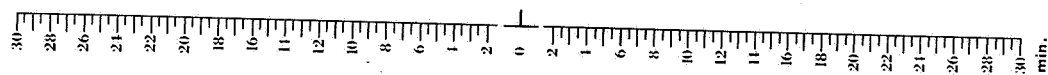


8613 8612 8611 8610 8609 8608 8607 8606 8605 8604 8603 8602 8601

13 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



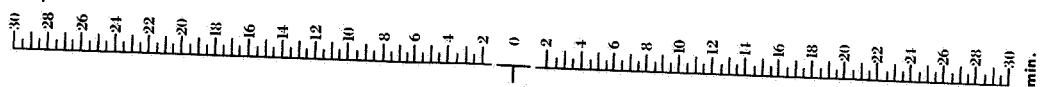
4-92



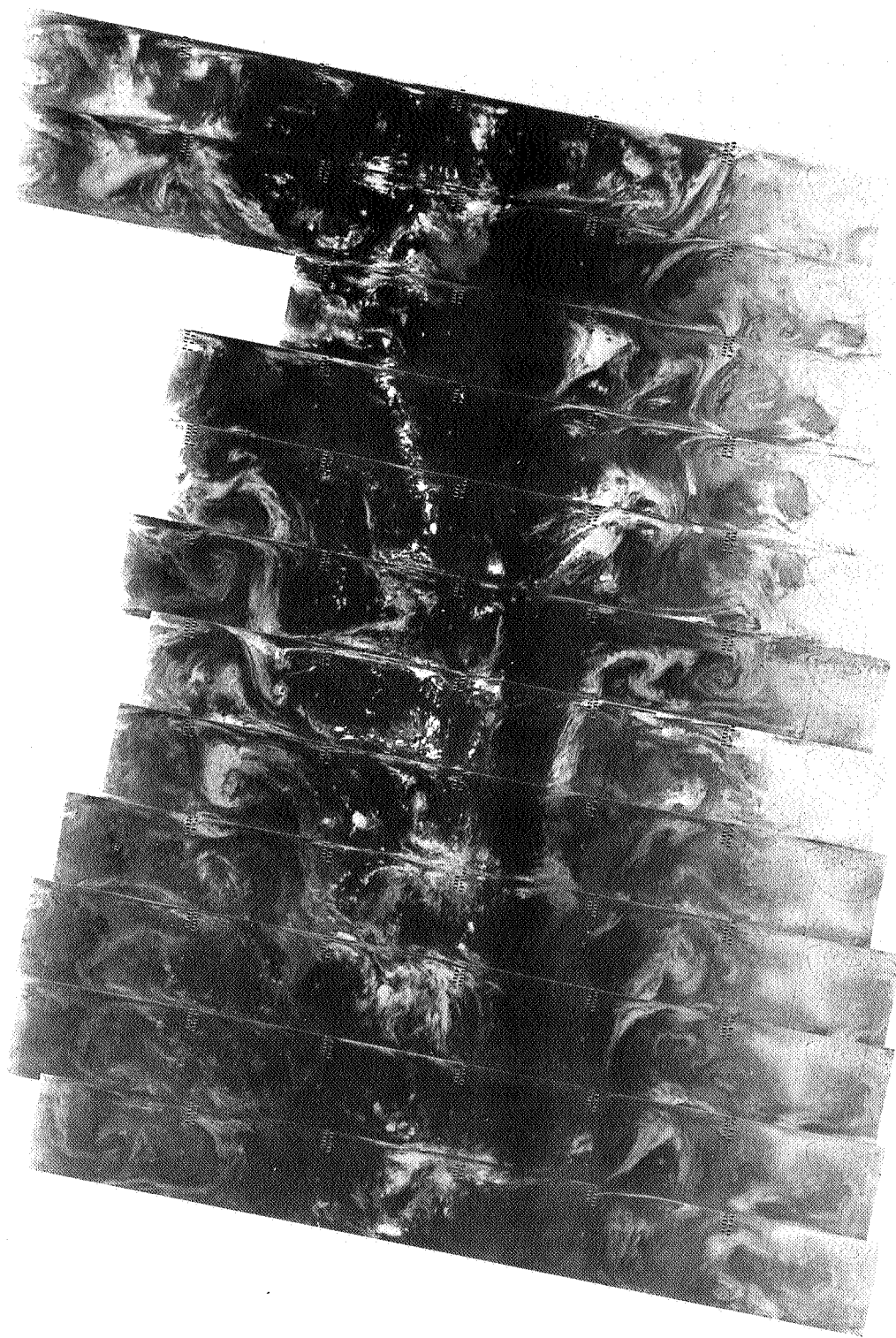
8627 8626 8625 8624 8623 8622 8621 8620 8619 8618 8617 8616 8615 8614

14 SEPTEMBER 1974

6.7 μm



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8627 8628 8629 8630 8631 8632 8633 8634 8635 8636 8637

14 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8640 8639 8638 8637 8636 8635 8634 8633 8632 8631 8630 8629 8628

15 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



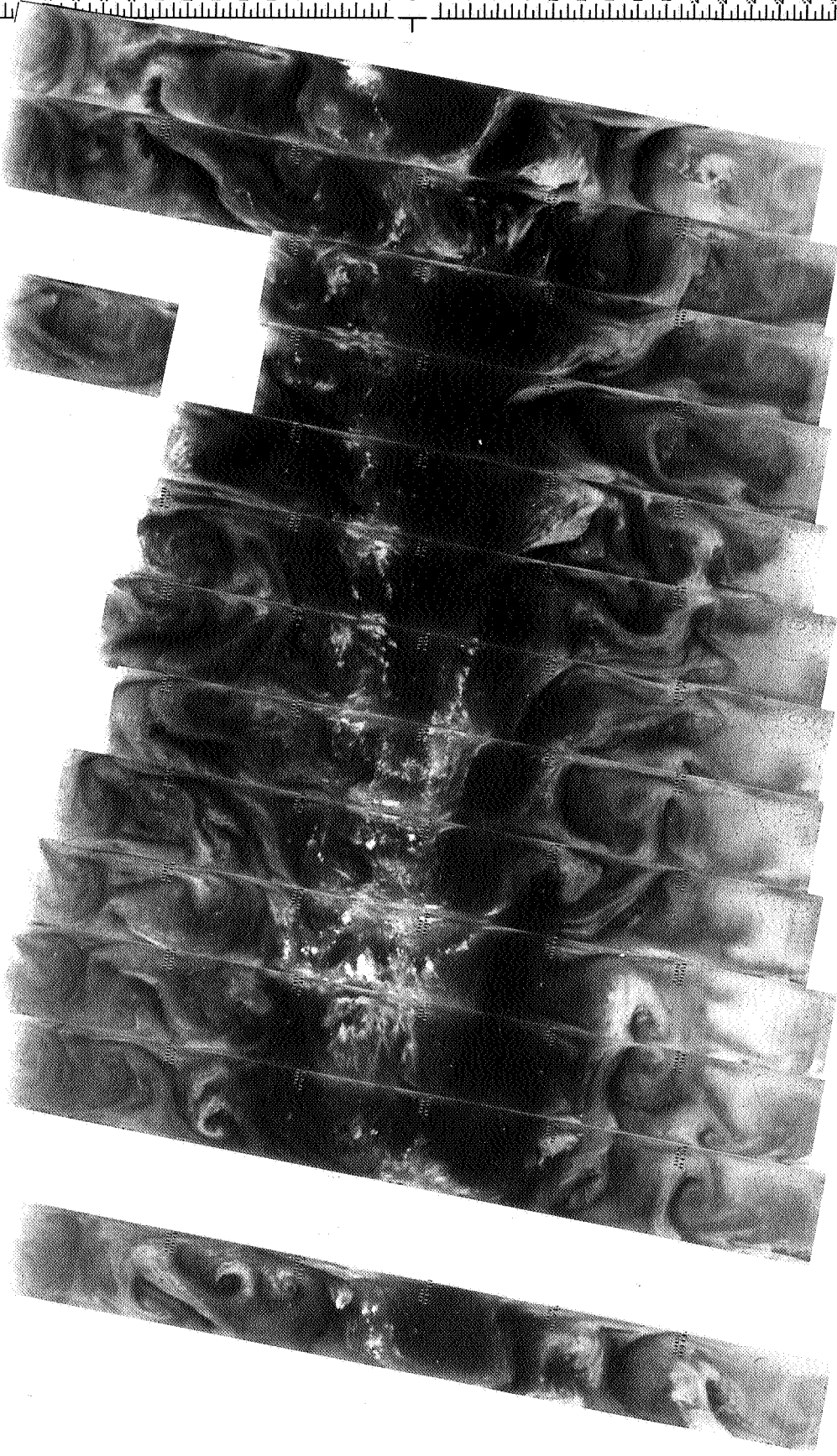
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8640 8639 8638 8637 8636 8635 8634 8633 8632 8631 8630 8629 8628

15 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



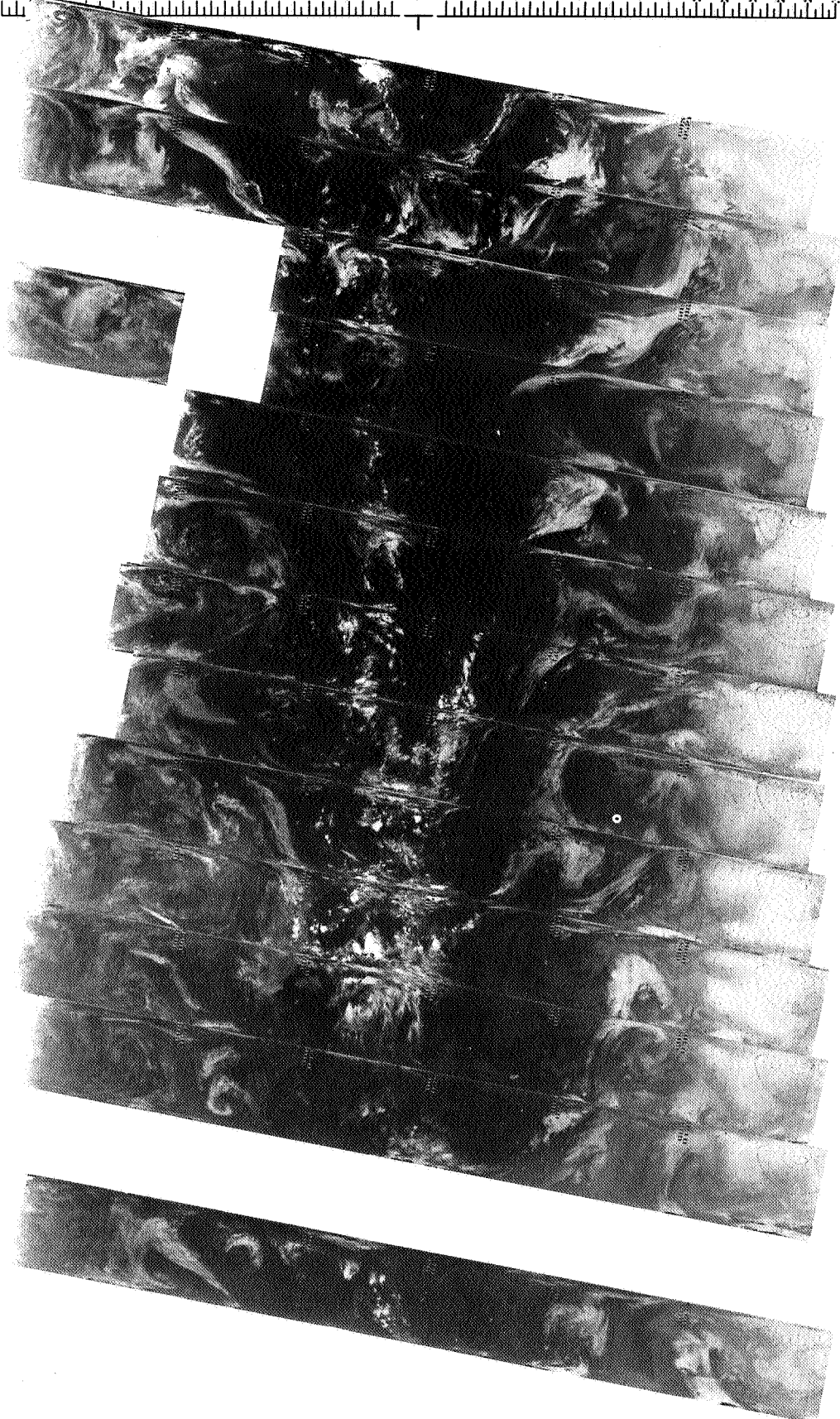
8654 8653 8652 8651 8650 8649 8648 8647 8646 8645 8644 8643 8642 8641

16 SEPTEMBER 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8654 8653 8652 8651 8650 8649 8648 8647 8646 8645 8644 8643 8642 8641

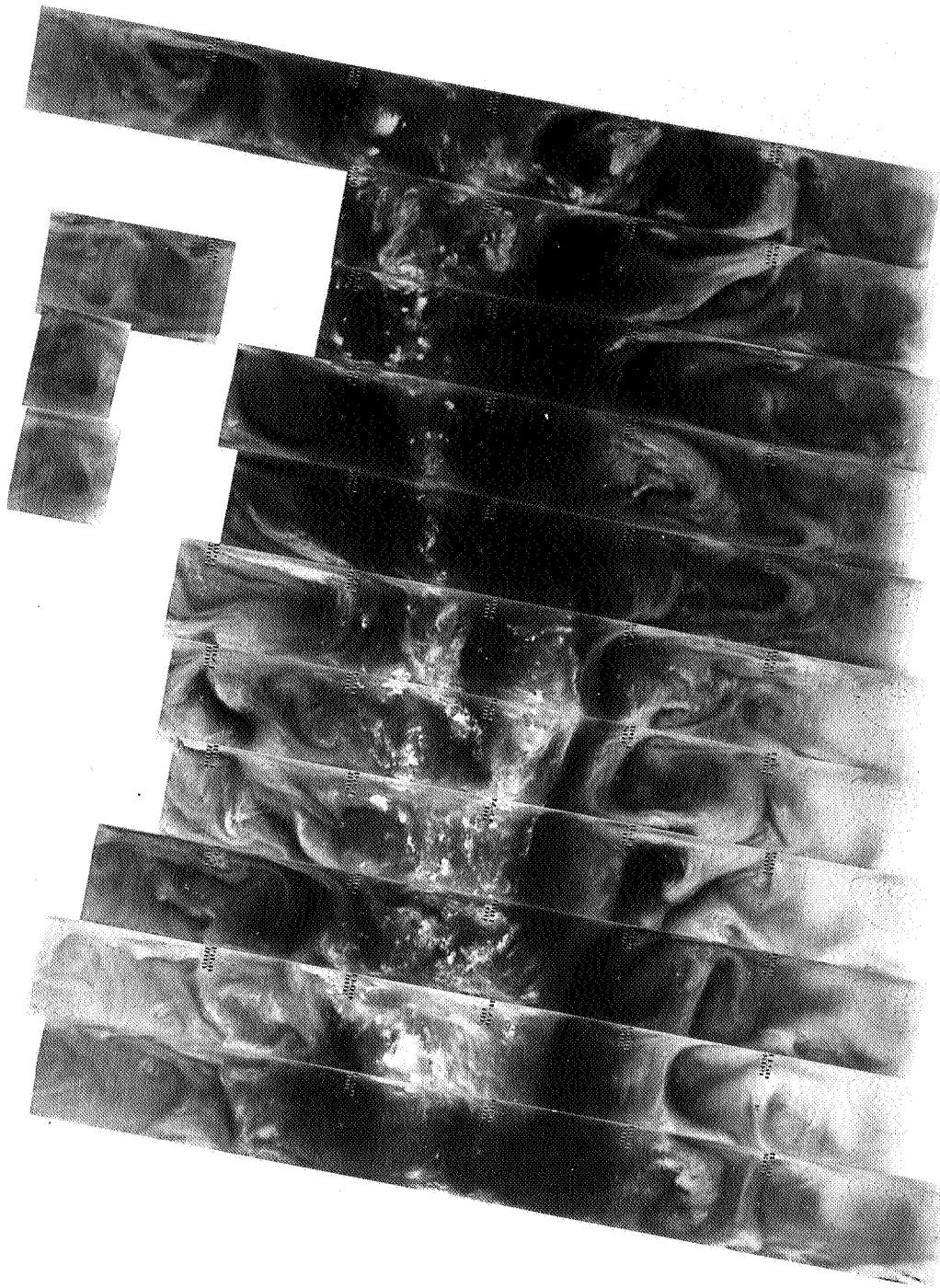
16 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-98



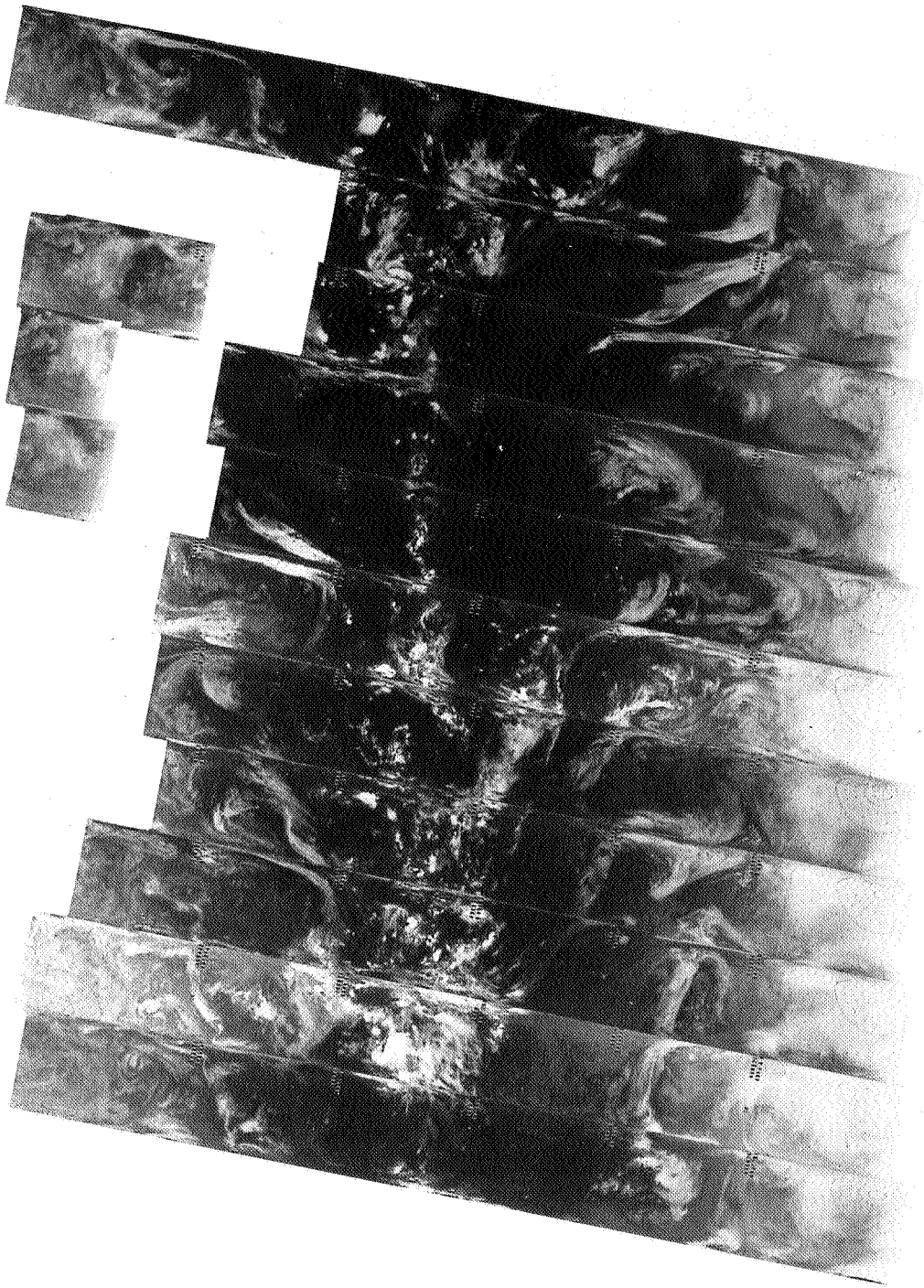
8667 8666 8665 8664 8663 8662 8661 8660 8659 8658 8657 8656 8655

17 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



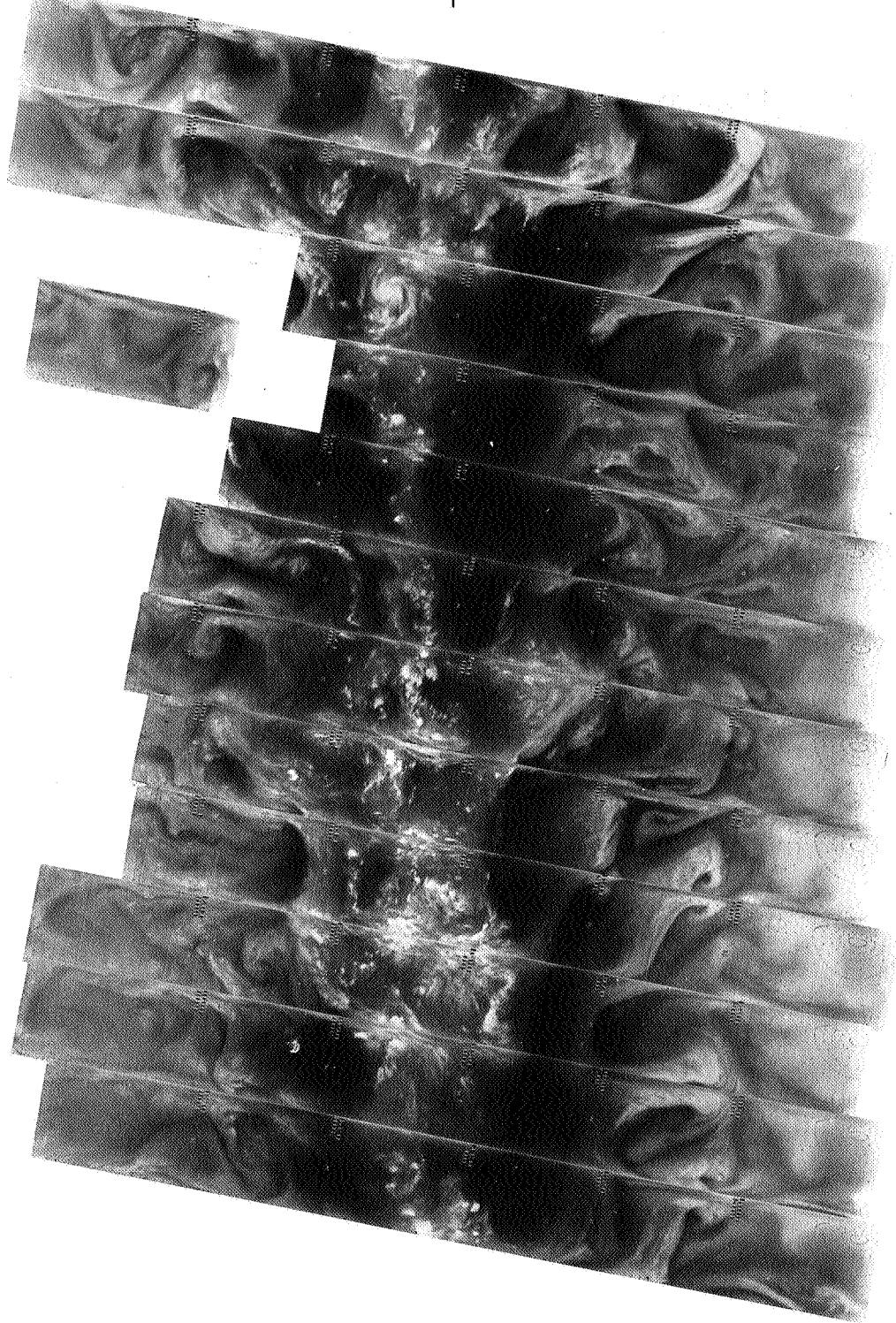
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8667 8666 8665 8664 8663 8662 8661 8660 8659 8658 8657 8656 8655

17 SEPTEMBER 1974

11.5 μm

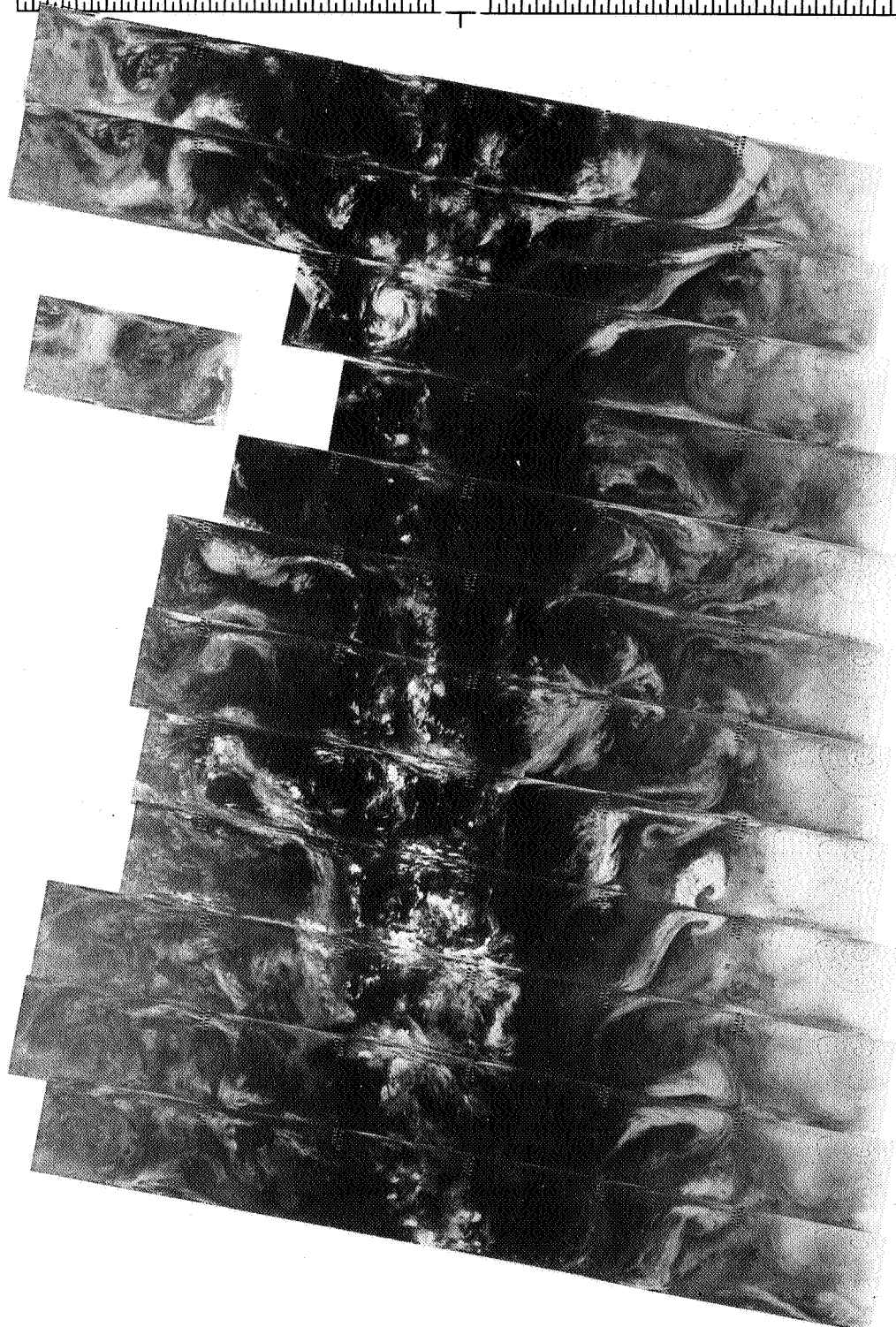
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8680 8679 8678 8677 8676 8675 8674 8673 8672 8671 8670 8669 8668
18 SEPTEMBER 1974
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



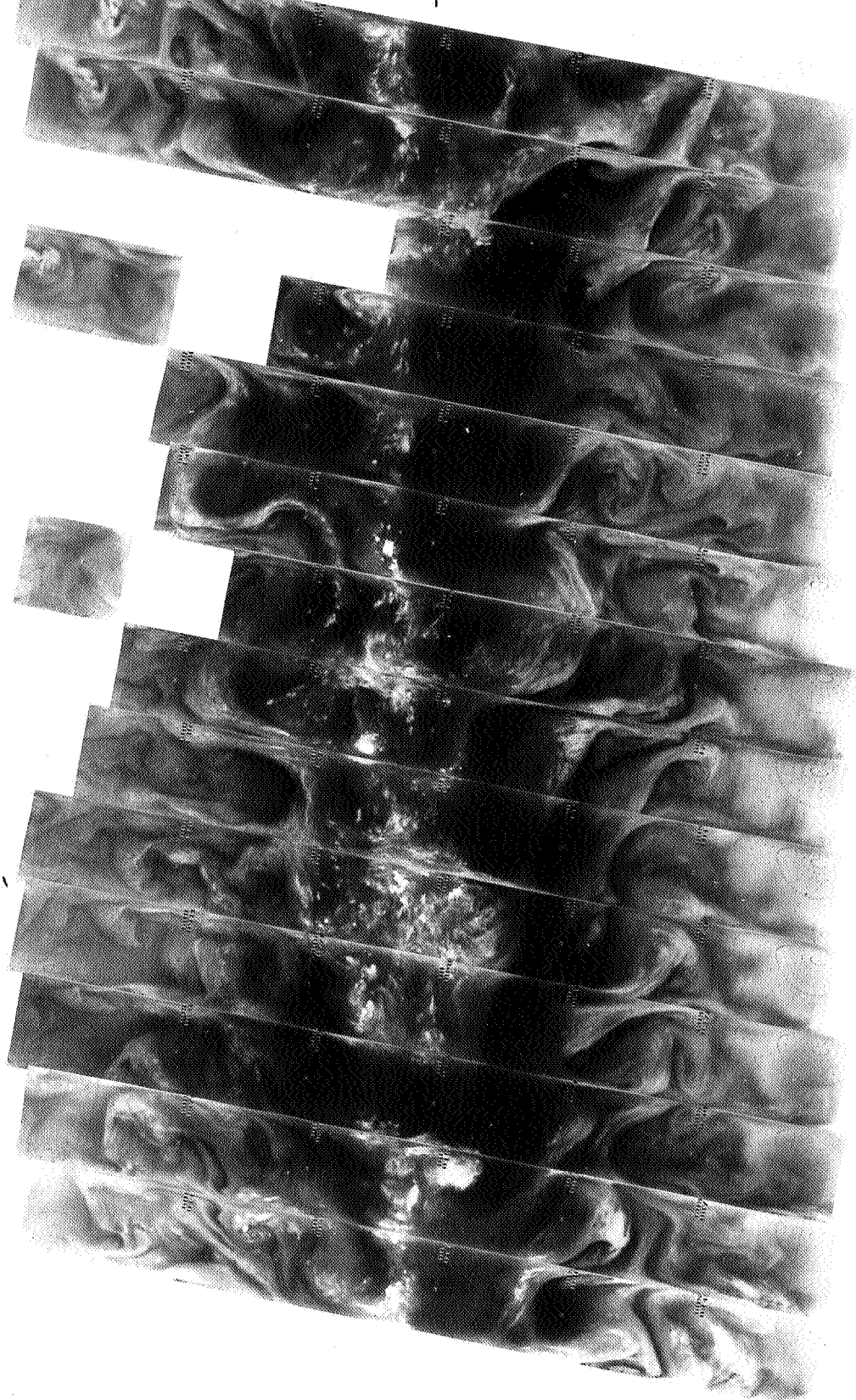
8680 8679 8678 8677 8676 8675 8674 8673 8672 8671 8670 8669 8668

18 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

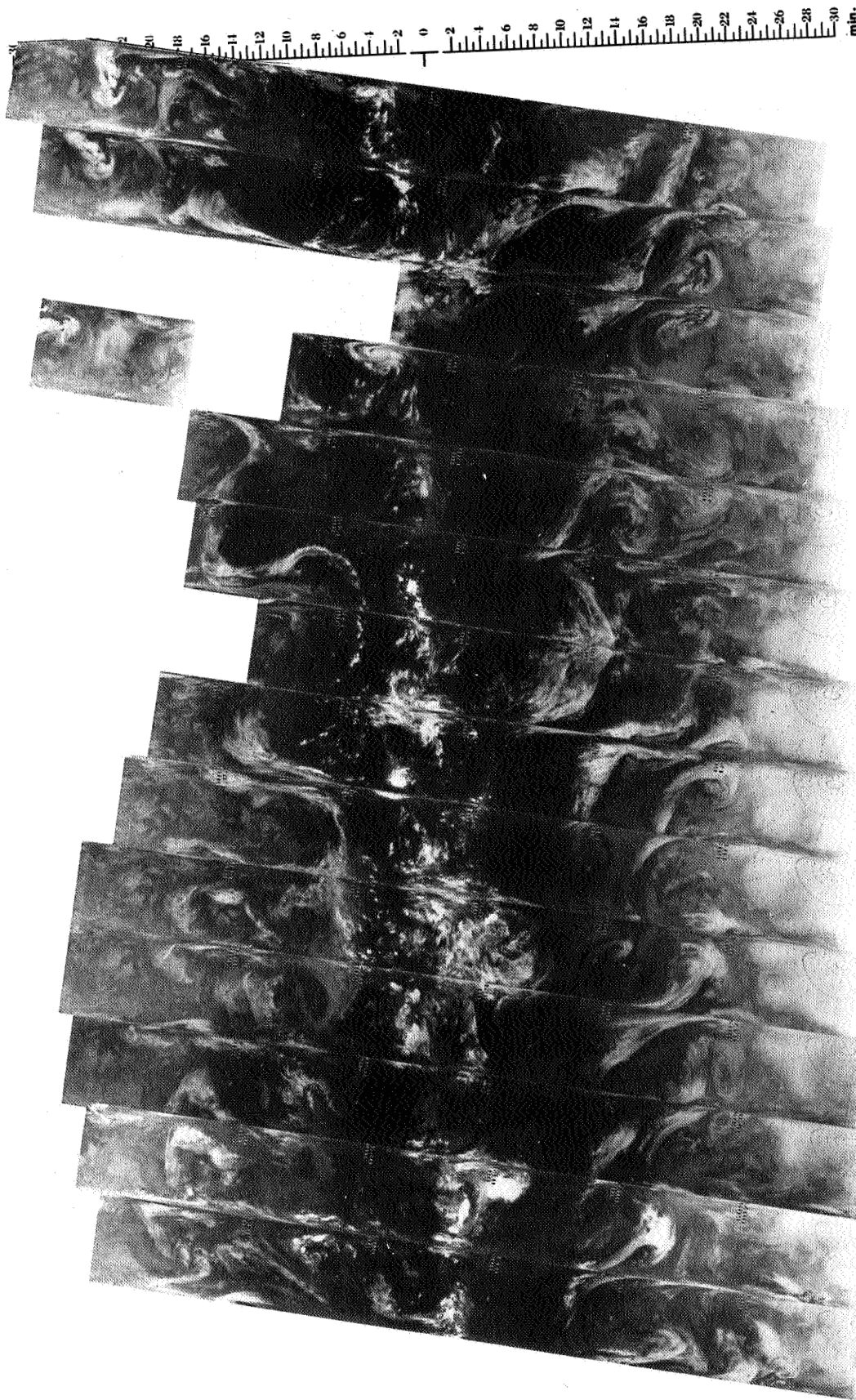


8694 8693 8692 8691 8690 8689 8688 8687 8686 8685 8684 8683 8682 8681

19 SEPTEMBER 1974

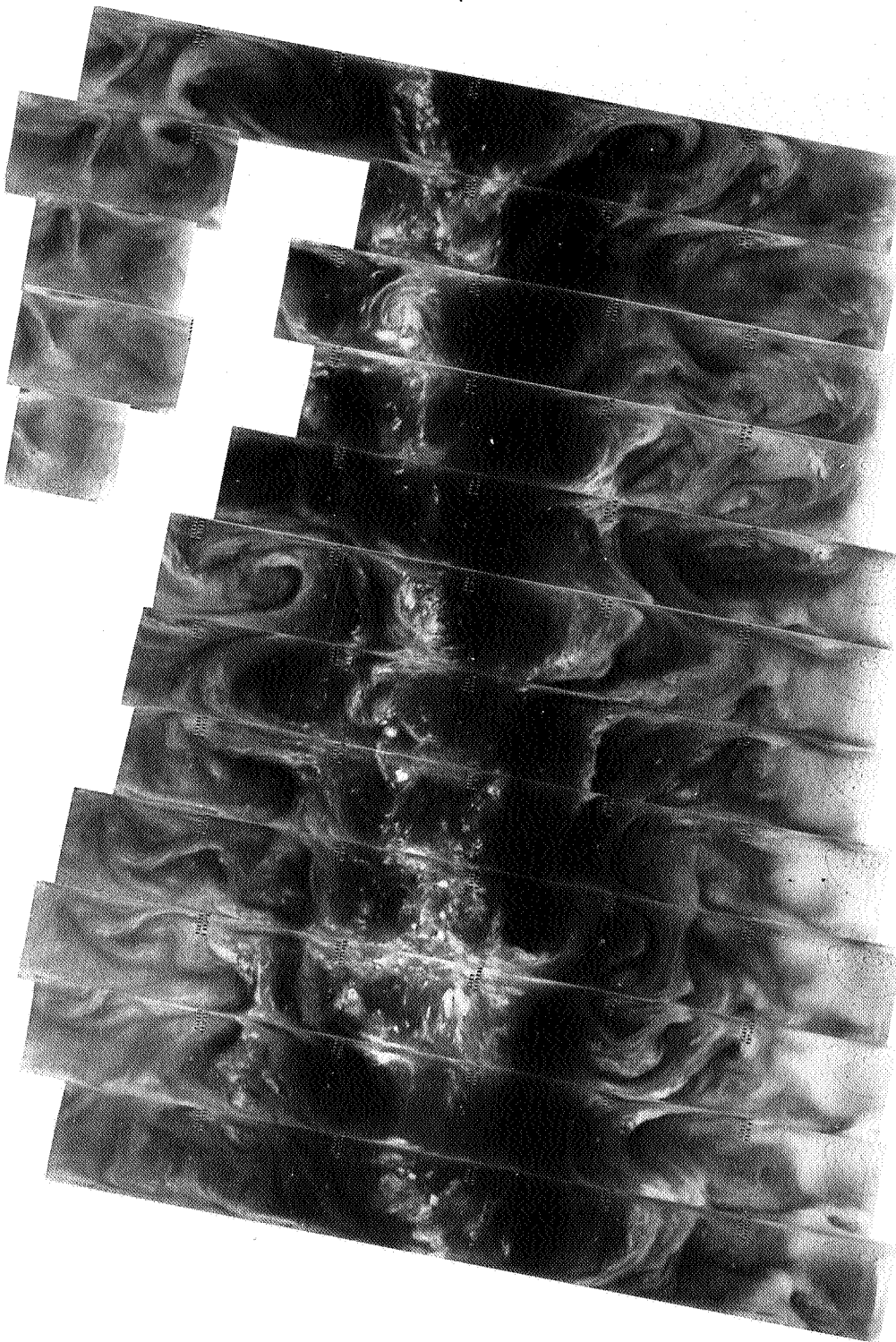
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8694 8693 8692 8691 8690 8689 8688 8687 8686 8685 8684 8683 8682 8681
19 SEPTEMBER 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



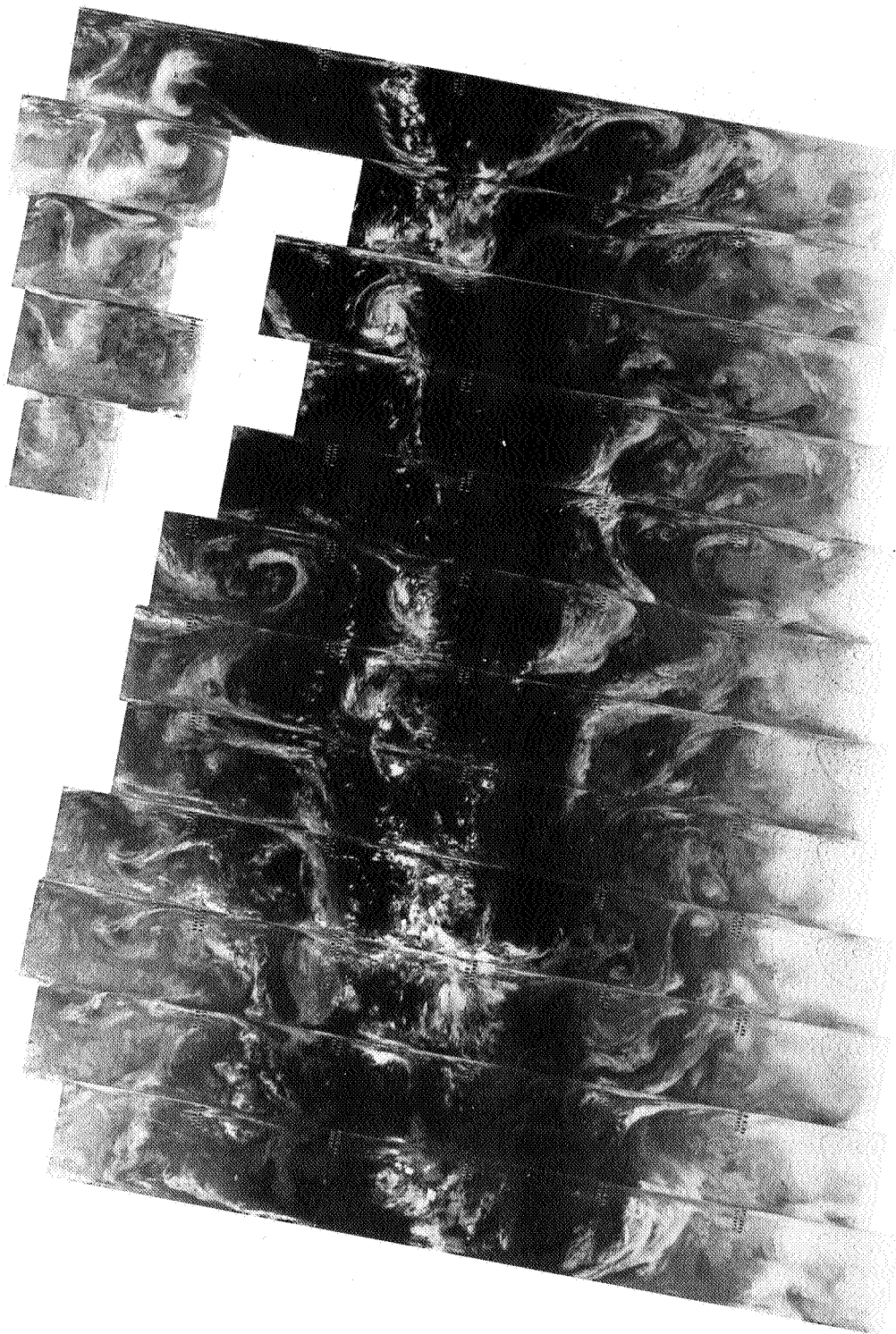
8707 8706 8705 8704 8703 8702 8701 8700 8699 8698 8697 8696 8695

20 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



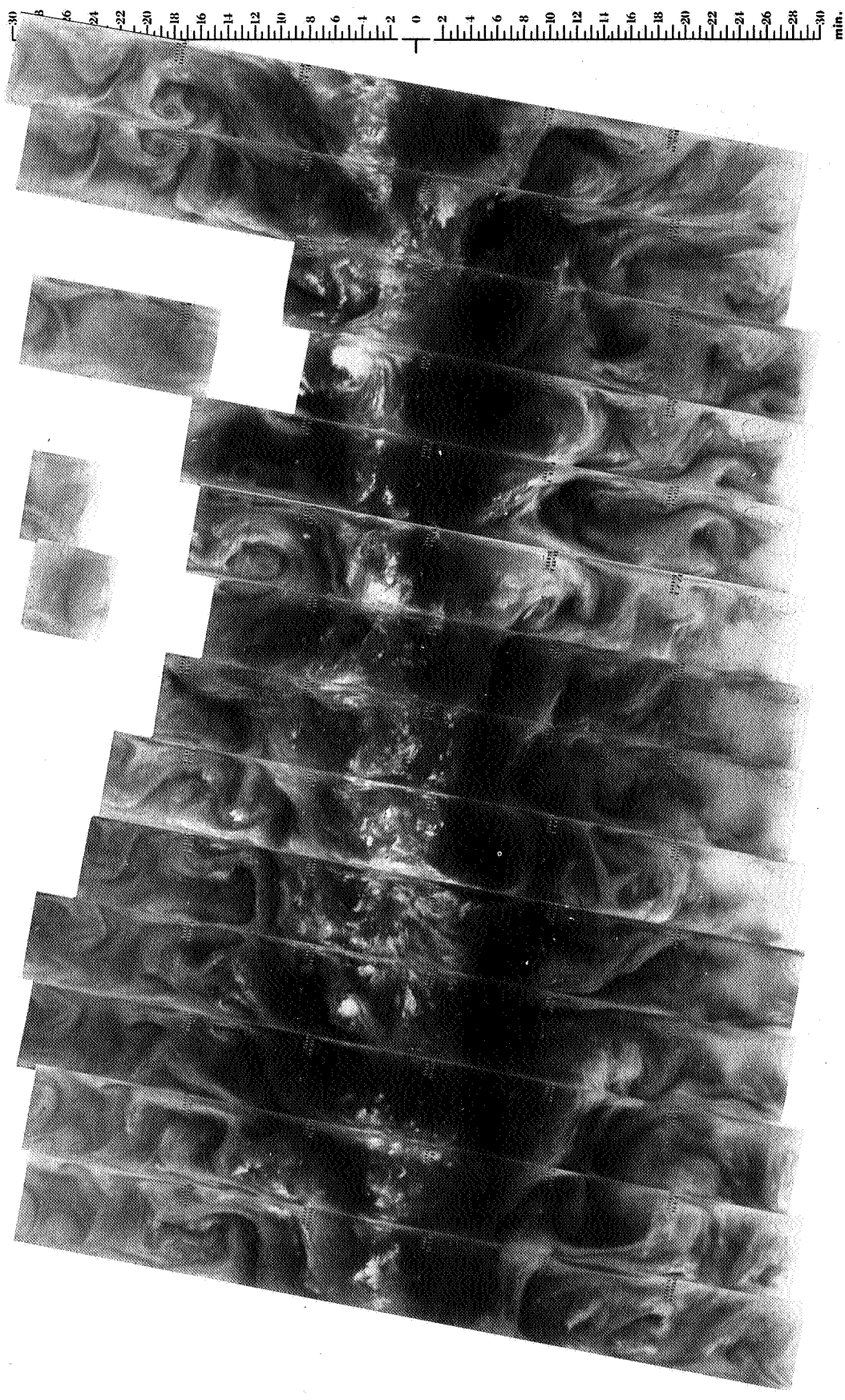
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-105

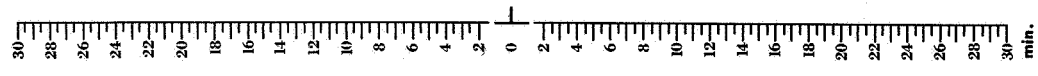
8707 8706 8705 8704 8703 8702 8701 8700 8699 8698 8697 8696 8695

20 SEPTEMBER 1974

11.5 μ m



8721 8720 8719 8718 8717 8716 8715 8714 8713 8712 8711 8710 8709 8708
21 SEPTEMBER 1974
6.7 μ m



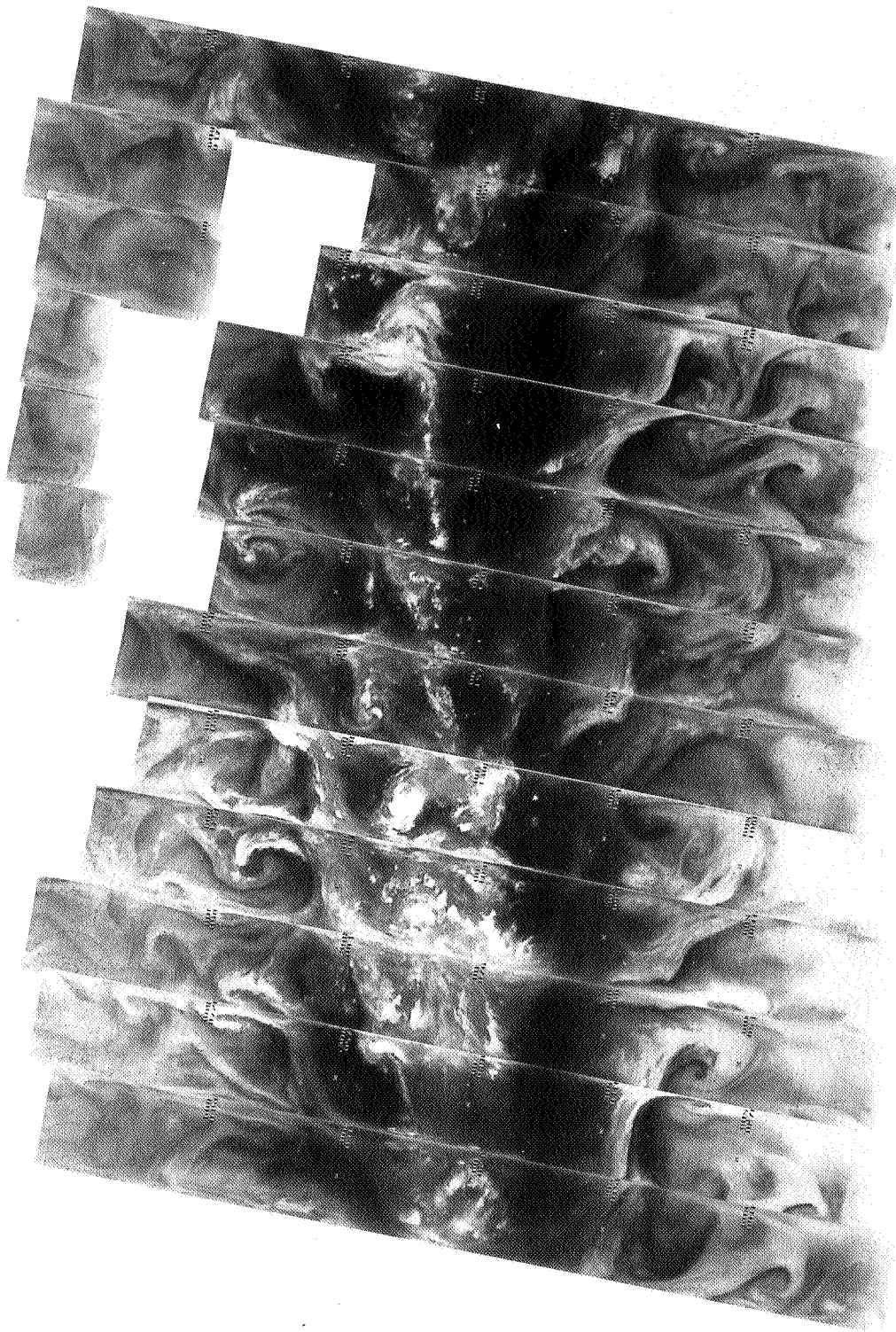


8721 8720 8719 8718 8717 8716 8715 8714 8713 8712 8711 8710 8709 8708

21 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8734 8733 8732 8731 8730 8729 8728 8727 8726 8725 8724 8723 8722

22 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

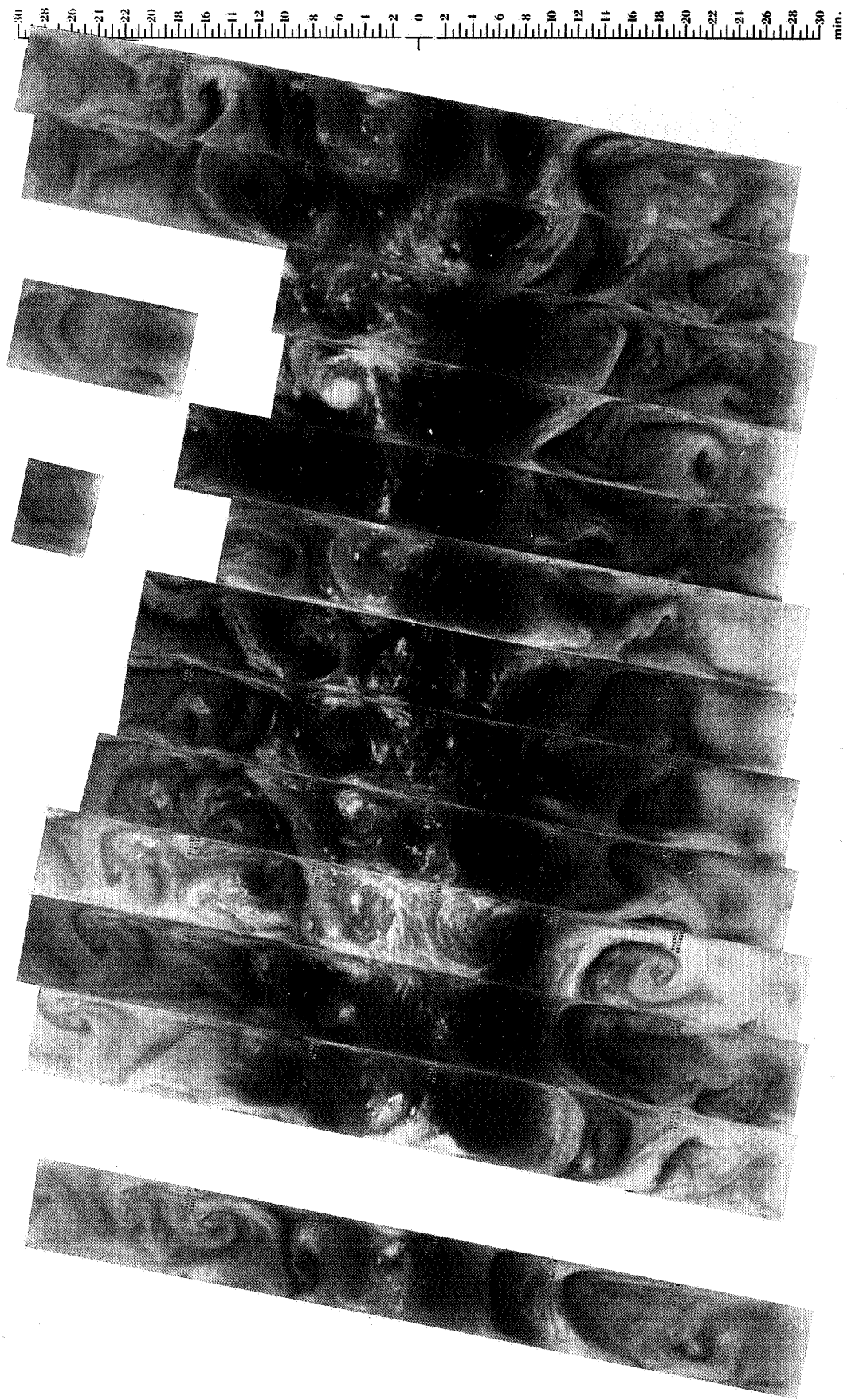


8734 8733 8732 8731 8730 8729 8728 8727 8726 8725 8724 8723 8722

22 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8748 8747 8746 8745 8744 8743 8742 8741 8740 8739 8738 8737 8736 8735

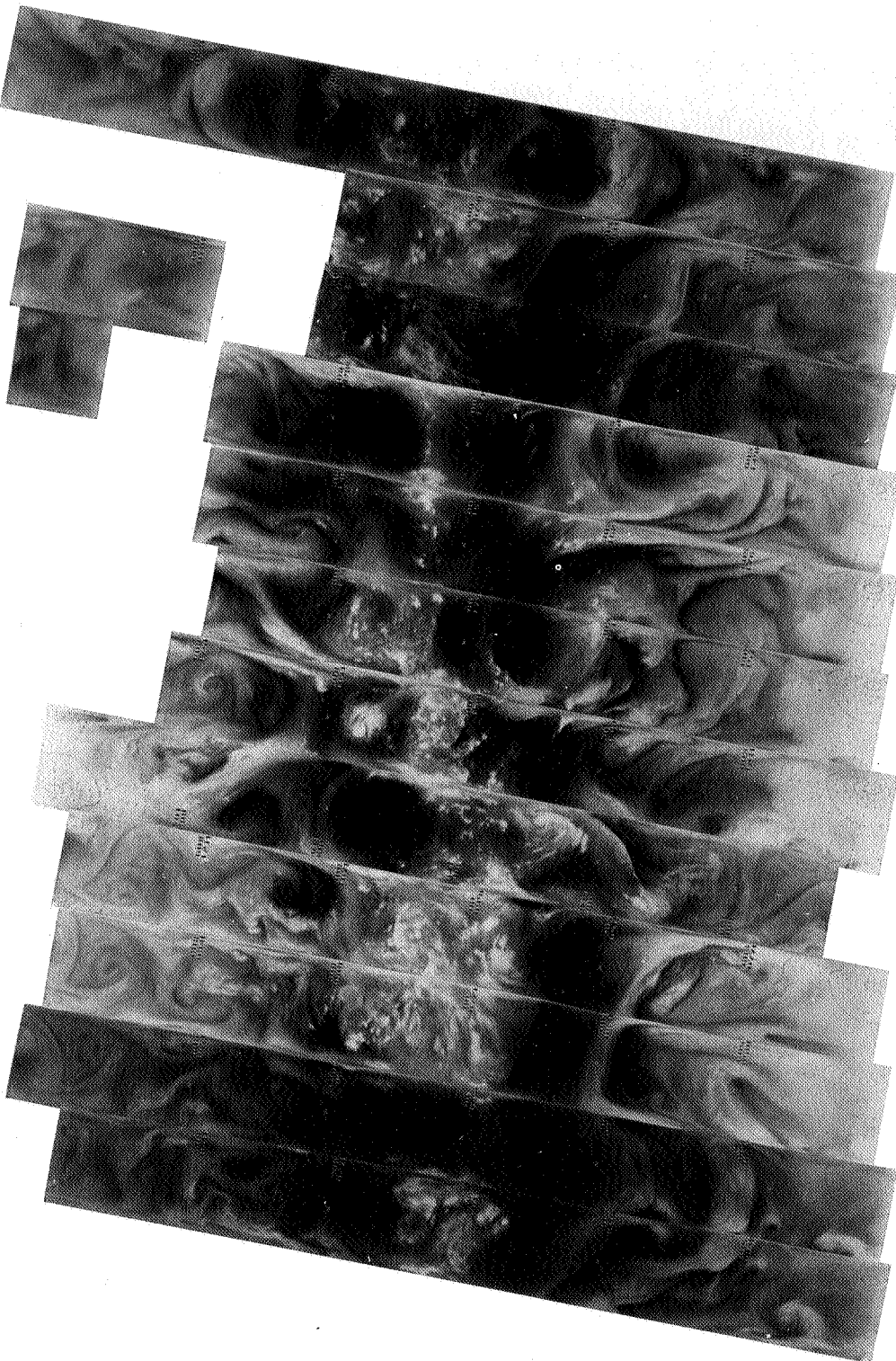
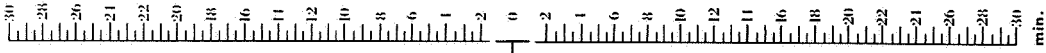
23 SEPTEMBER 1974

6.7 μ m



23 SEPTEMBER 1974

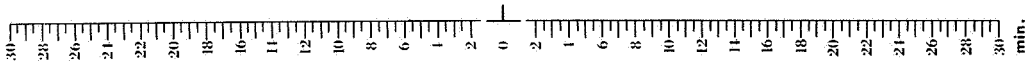
11.5 μm



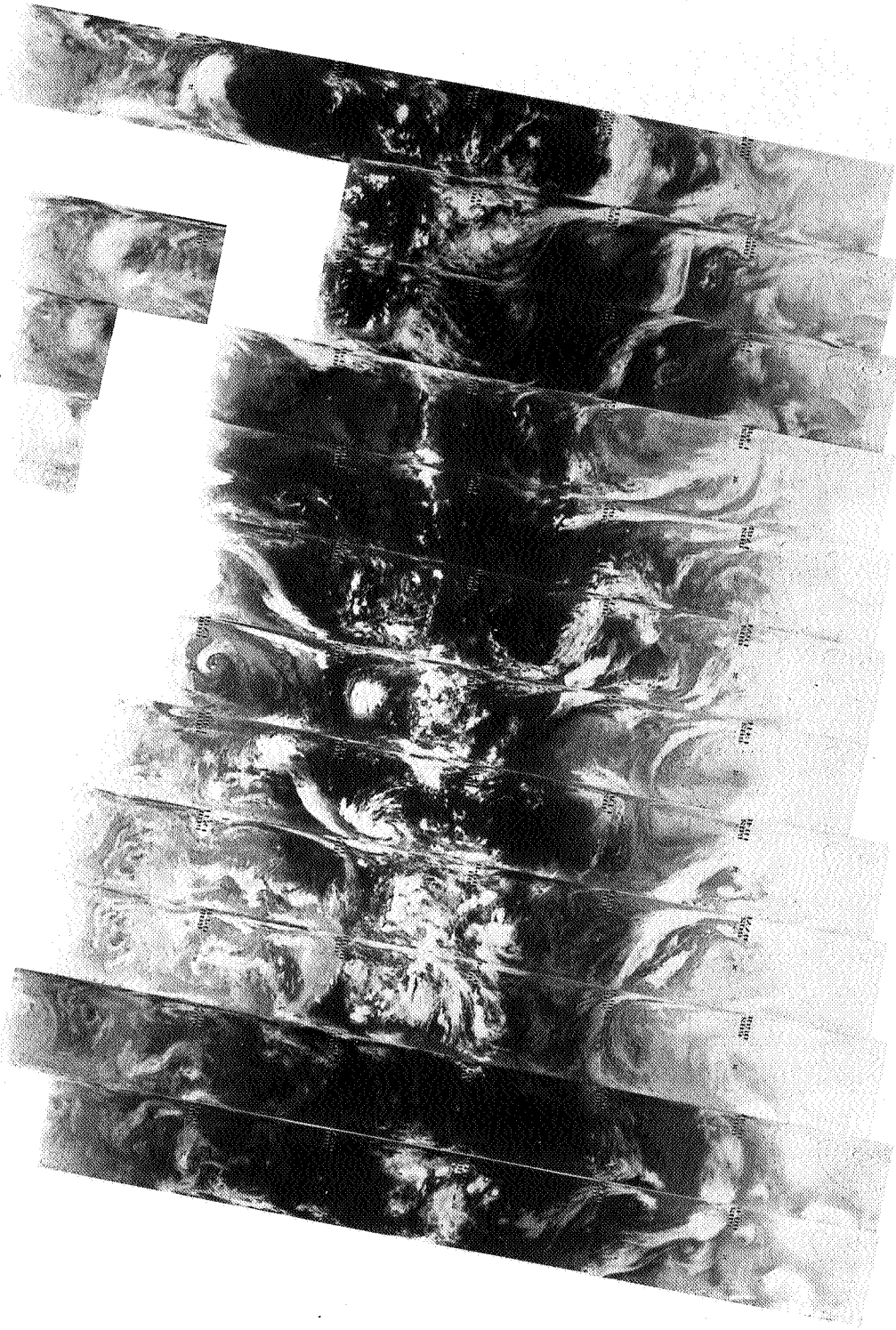
8761 8760 8759 8758 8757 8756 8755 8754 8753 8752 8751 8750 8749

24 SEPTEMBER 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



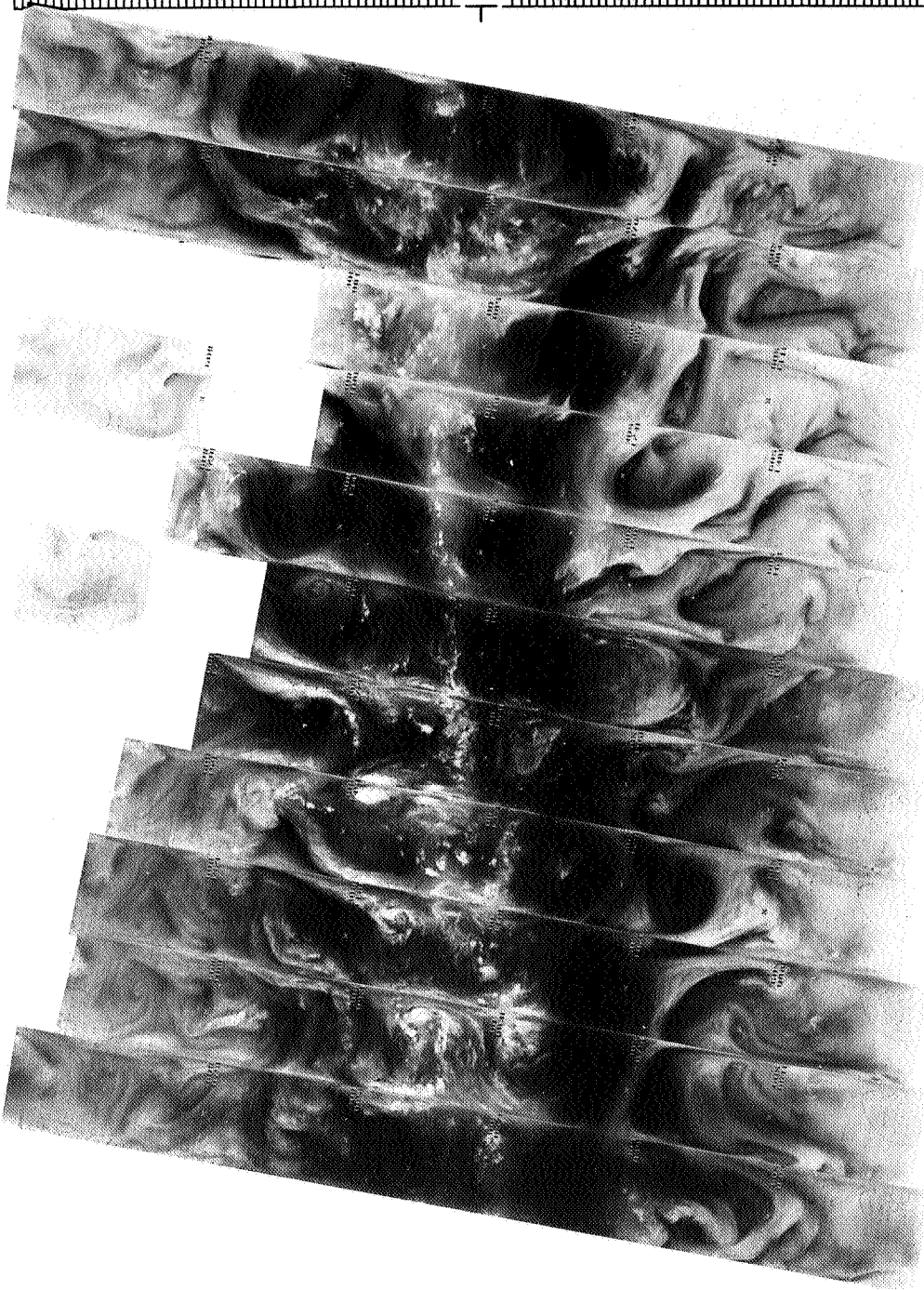
8761 8760 8759 8758 8757 8756 8755 8754 8753 8752 8751 8750 8749

24 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



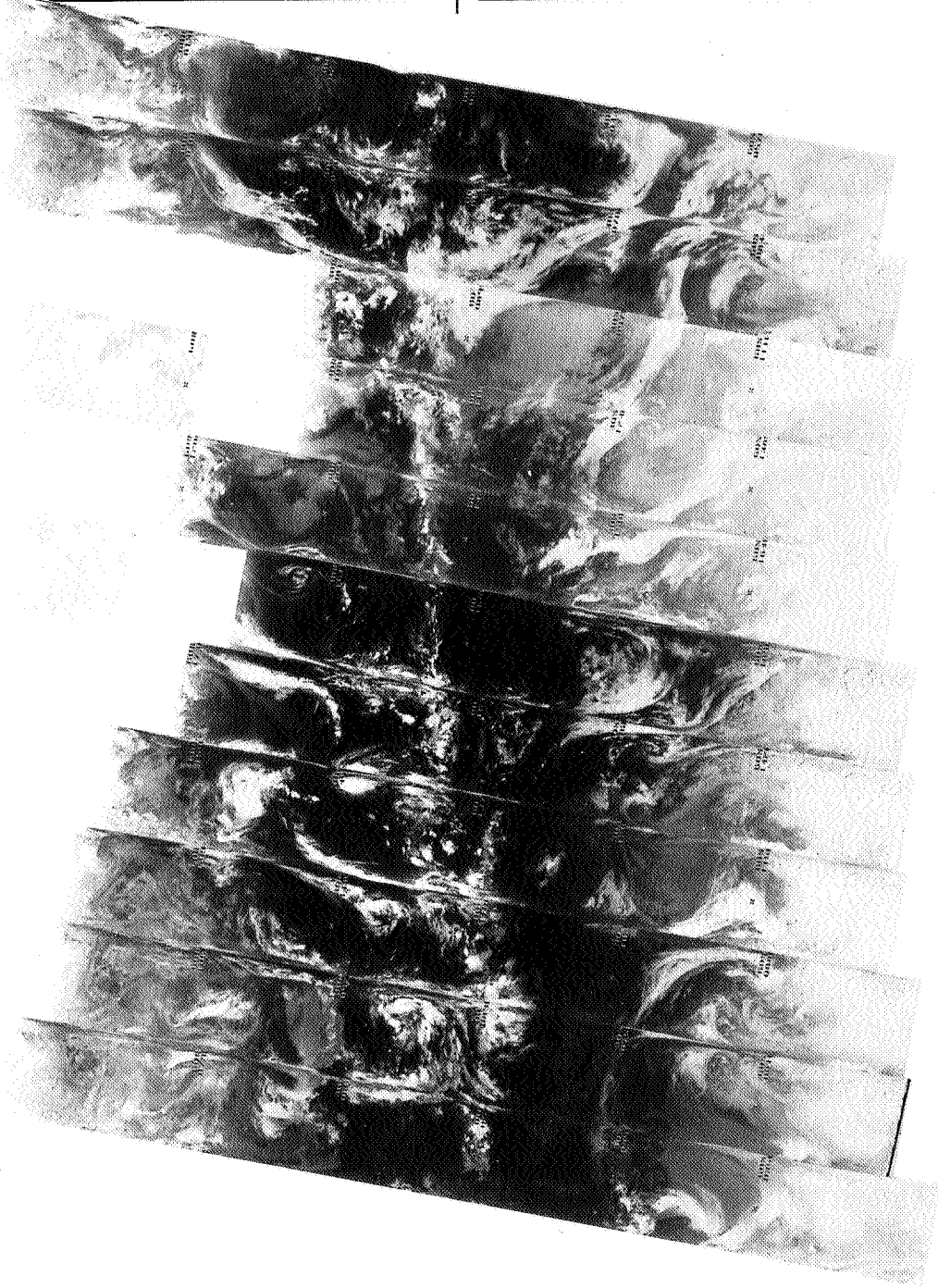
8774 8773 8772 8771 8770 8769 8768 8767 8766 8765 8764 8763 8762

25 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

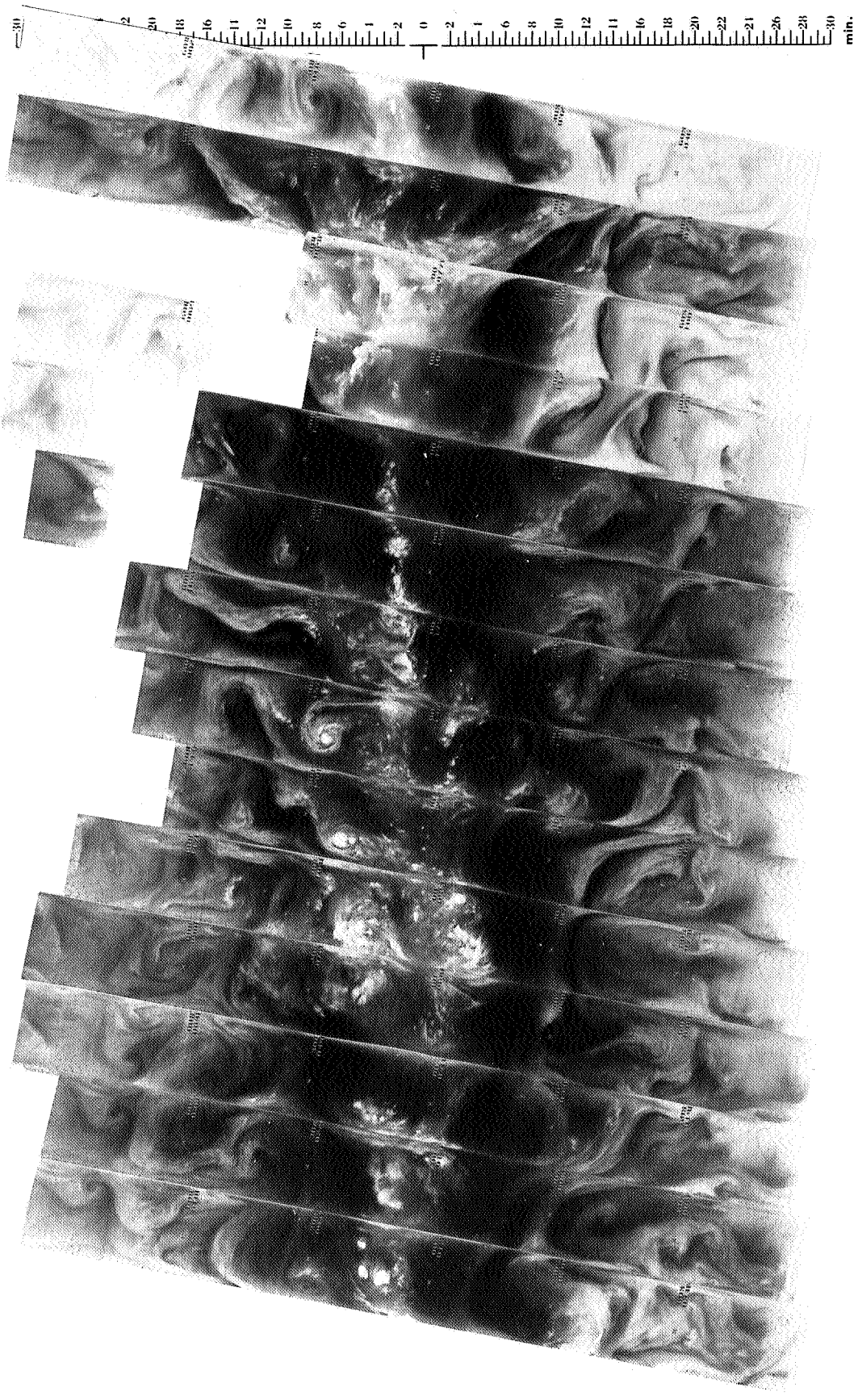


8774 8773 8772 8771 8770 8769 8768 8767 8766 8765 8764 8763 8762

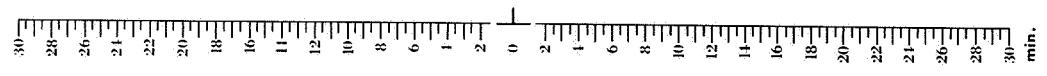
25 SEPTEMBER 1974

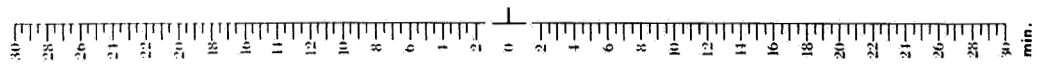
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

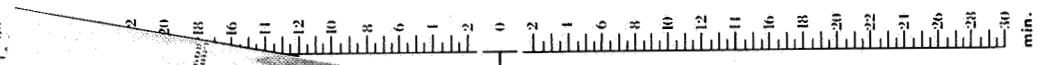


8788 8787 8786 8785 8784 8783 8782 8781 8780 8779 8778 8777 8776 8775
26 SEPTEMBER 1974
6.7 μm





4-117

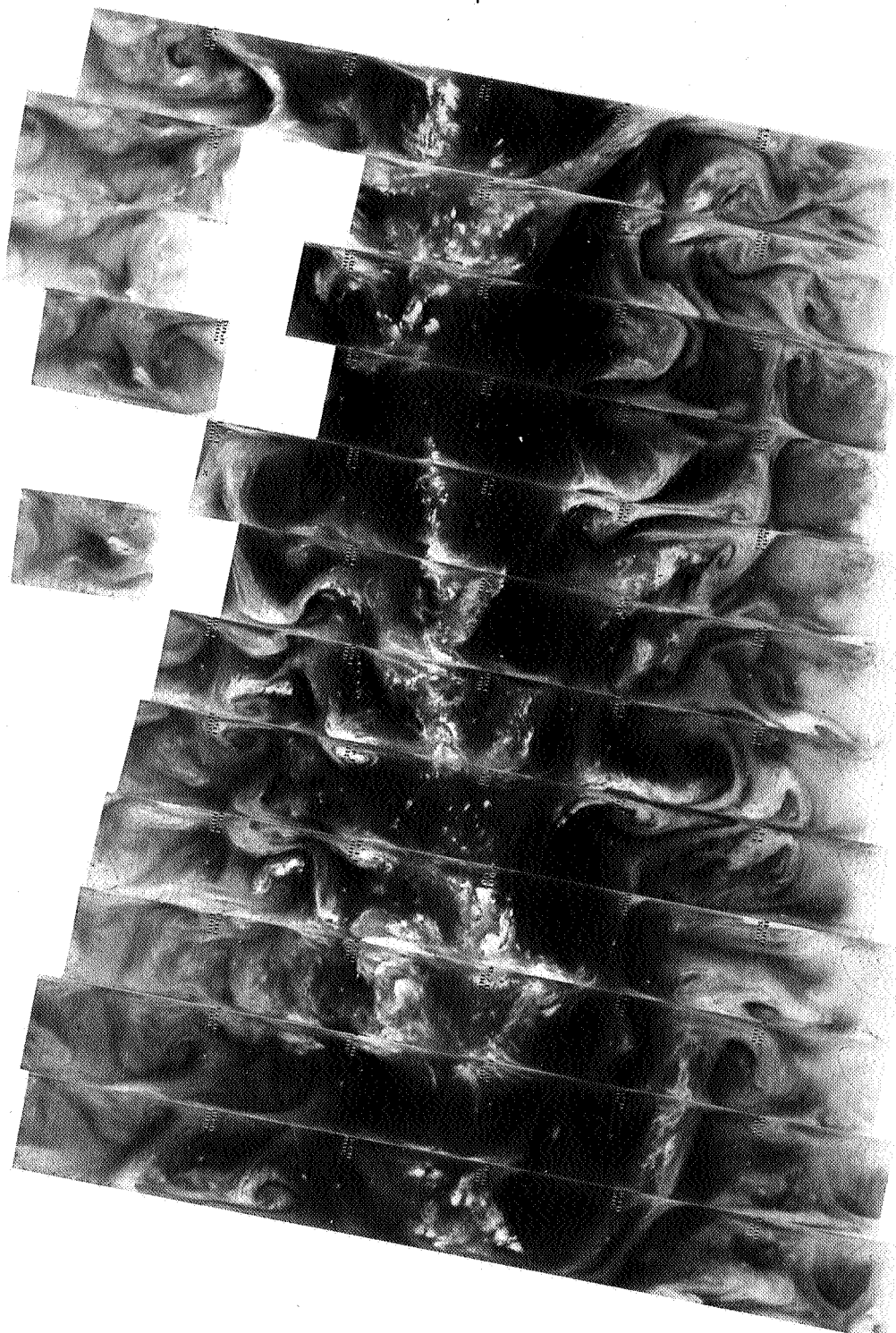


8788 8787 8786 8785 8784 8783 8782 8781 8780 8779 8778 8777 8776 8775

26 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

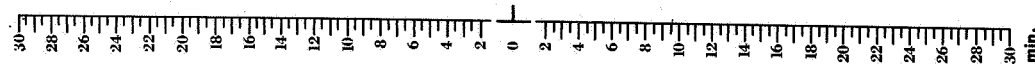


8801 8800 8799 8798 8797 8796 8795 8794 8793 8792 8791 8790 8789

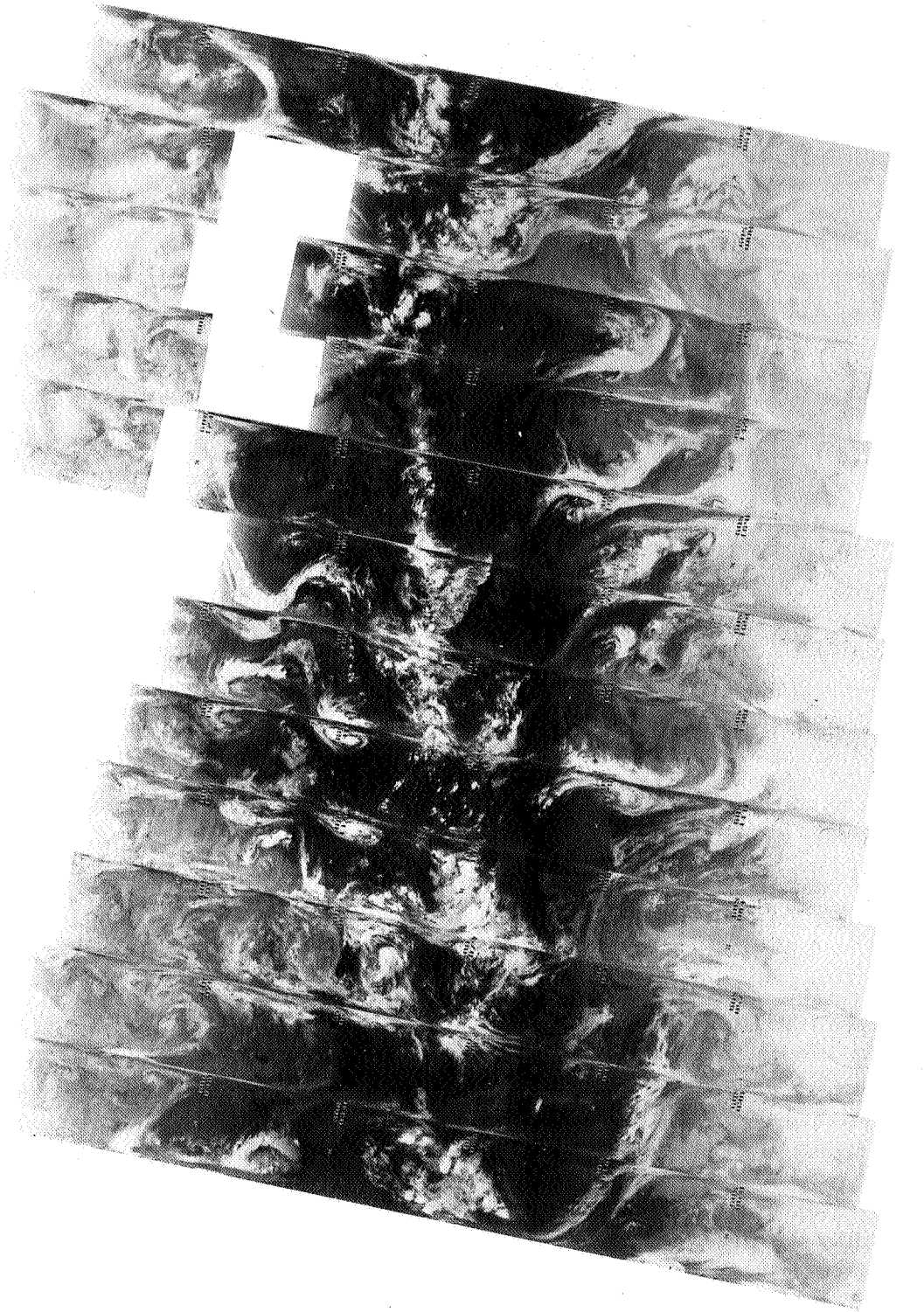
27 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



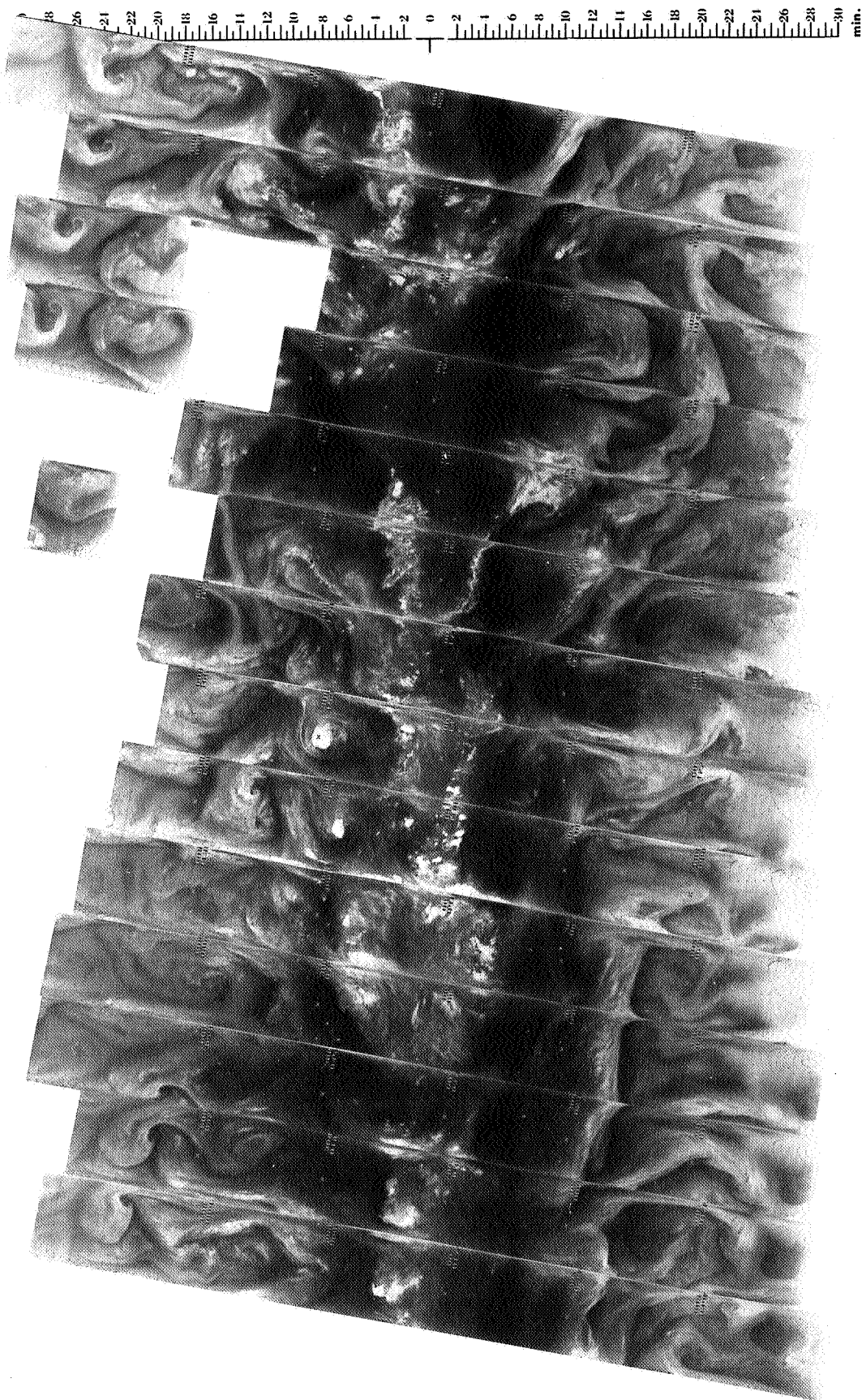
4-119



8801 8800 8799 8798 8797 8796 8795 8794 8793 8792 8791 8790 8789

27 SEPTEMBER 1974

11.5 μ m



28 SEPTEMBER 1974

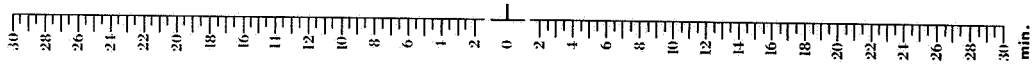
6.7 μm

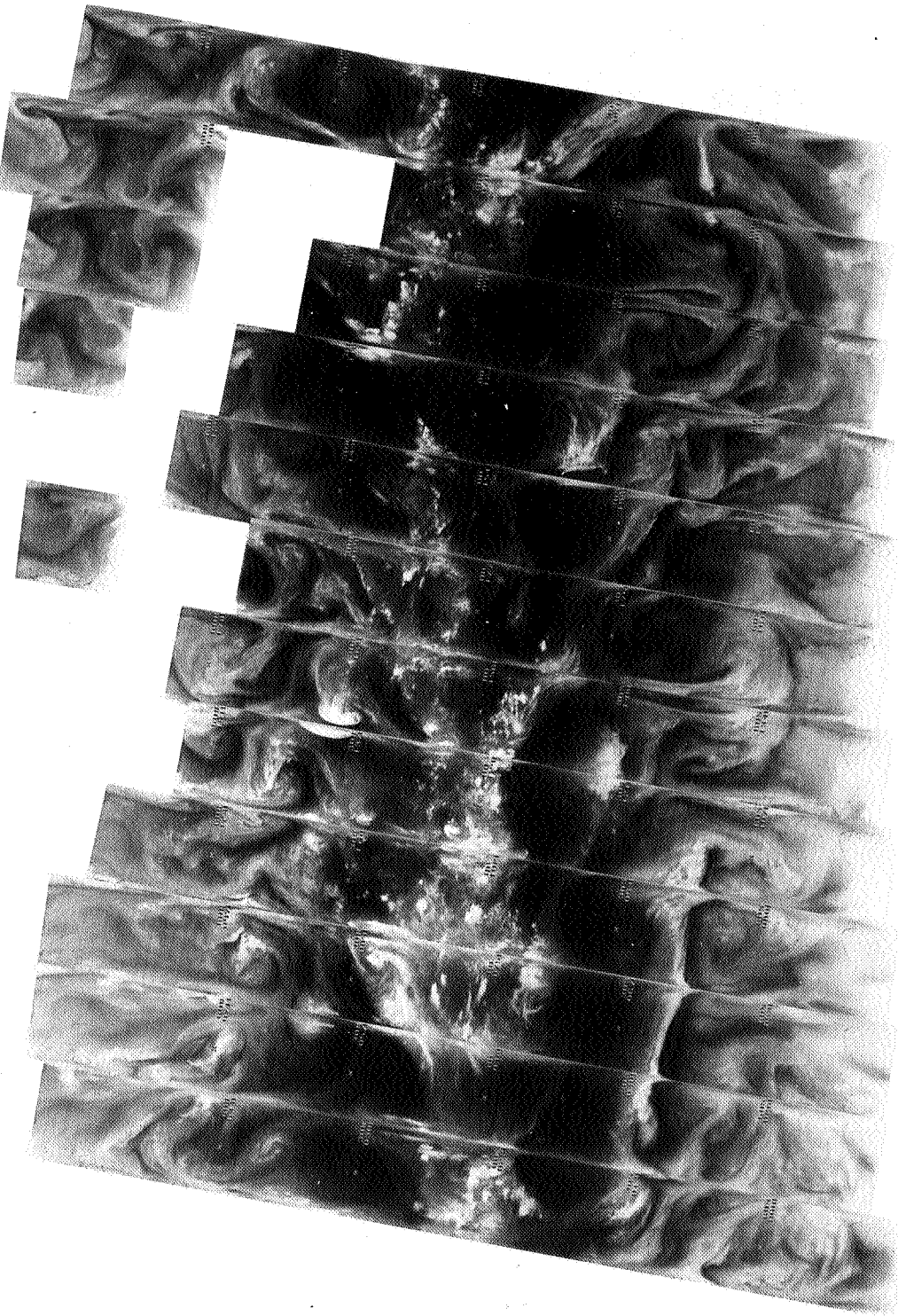
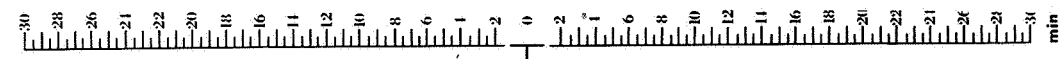


8815 8814 8813 8812 8811 8810 8809 8808 8807 8806 8805 8804 8803 8802

28 SEPTEMBER 1974

11.5 μm

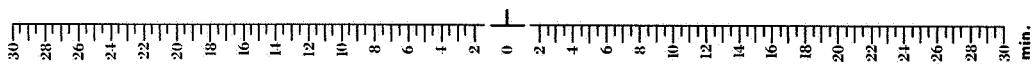




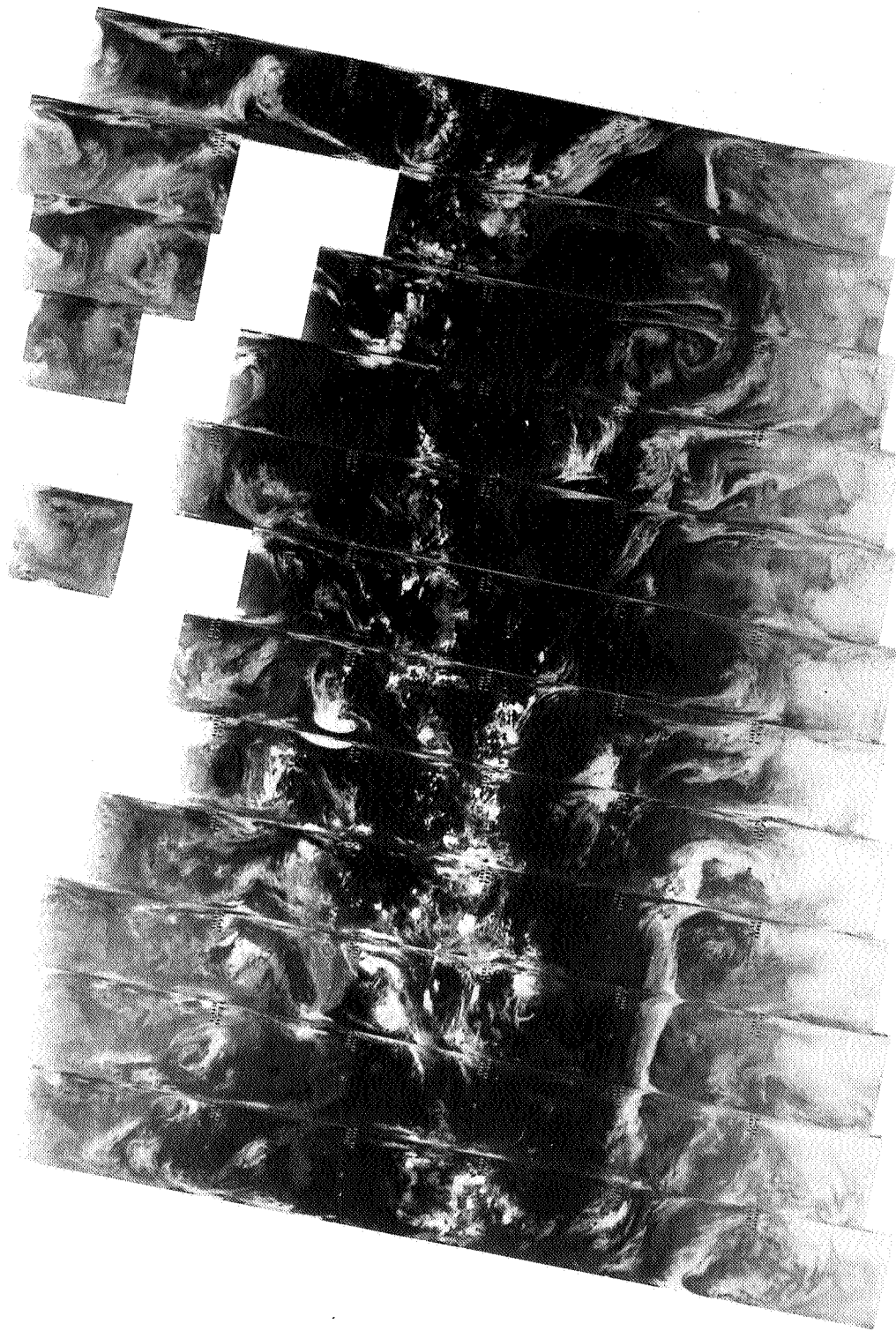
8828 8827 8826 8825 8824 8823 8822 8821 8820 8819 8818 8817 8816

29 SEPTEMBER 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min

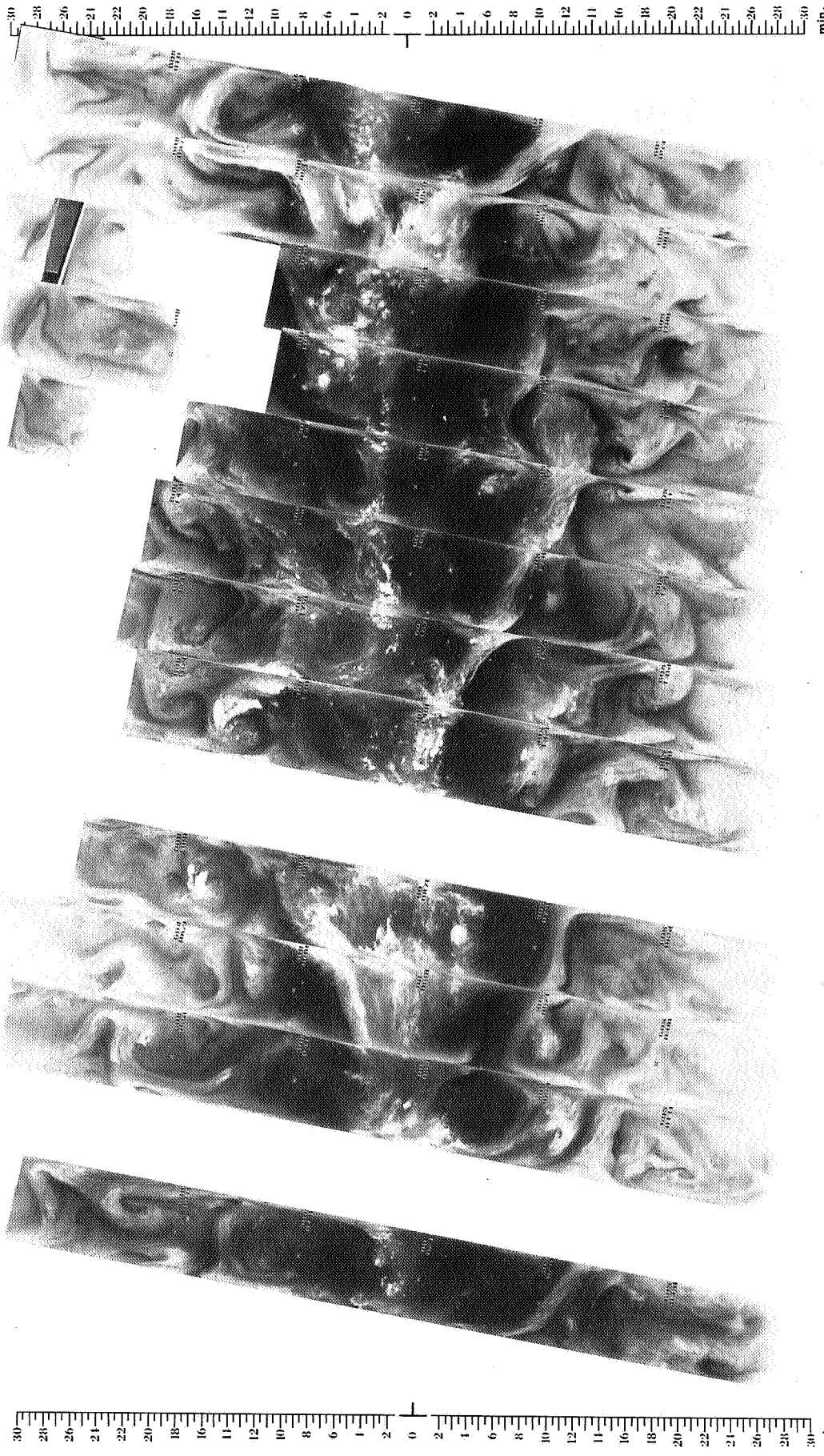


8828 8827 8826 8825 8824 8823 8822 8821 8820 8819 8818 8817 8816

29 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

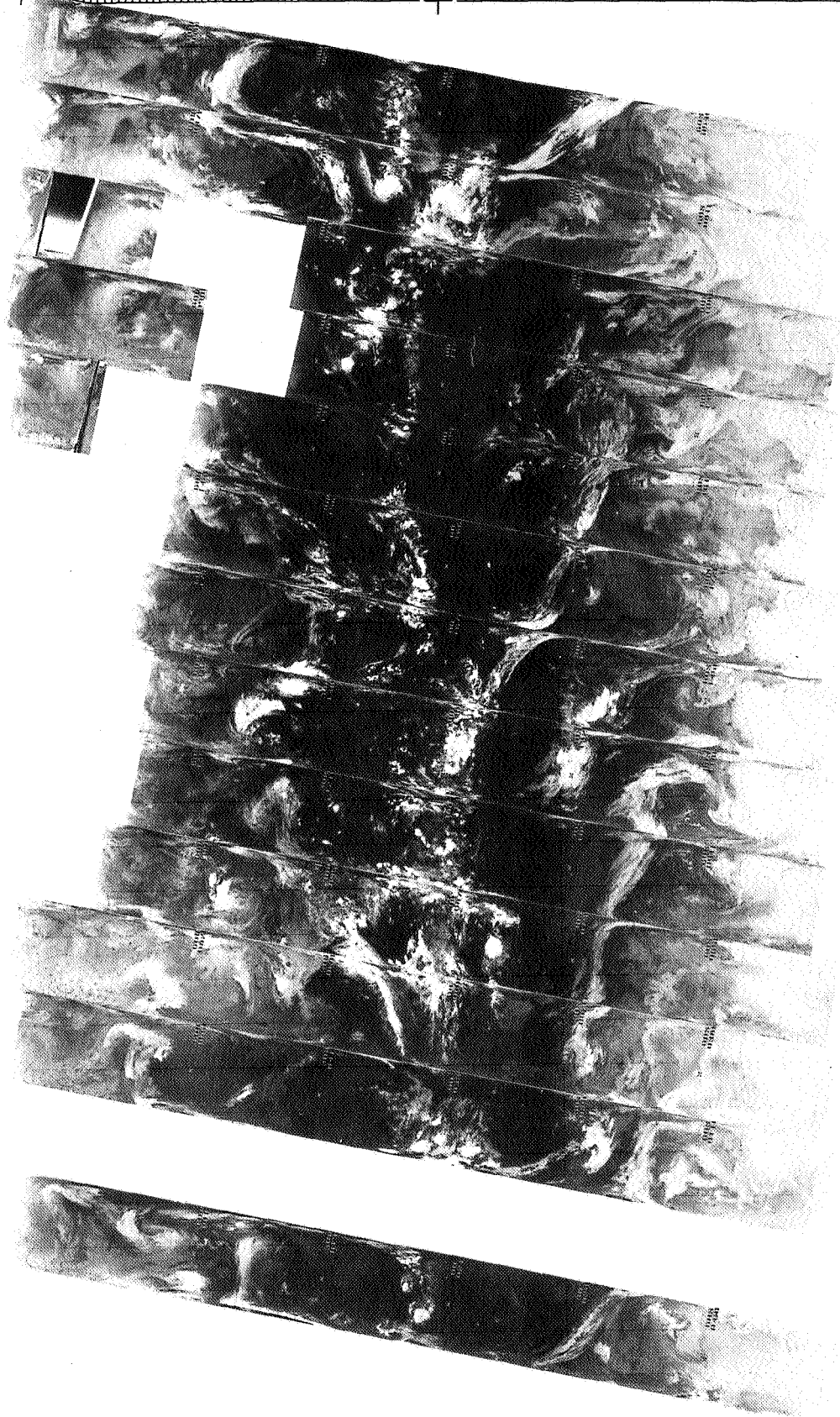


8842 8841 8840 8839 8838 8837 8836 8835 8834 8833 8832 8831 8830 8829

30 SEPTEMBER 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-125

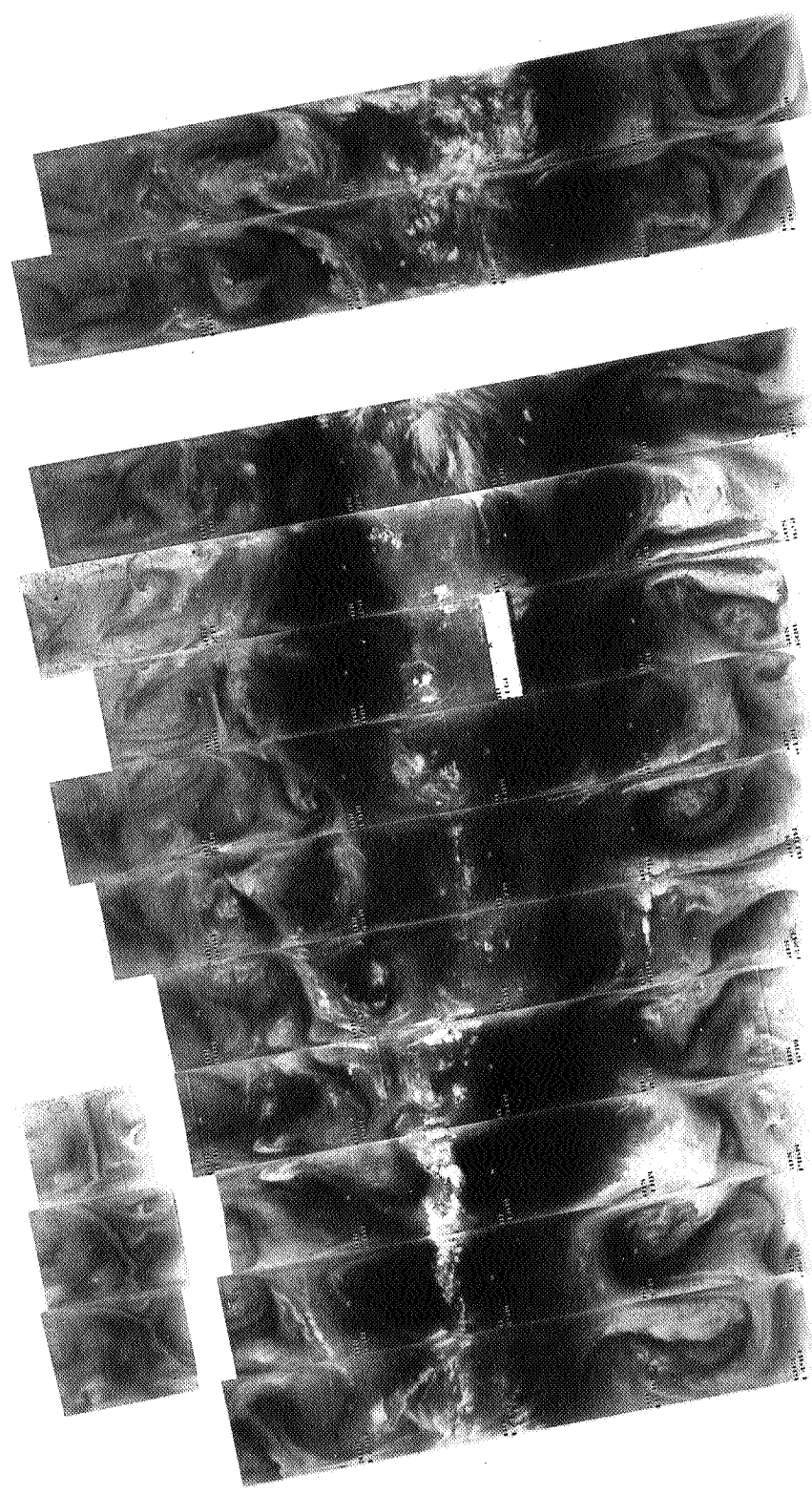
8842 8841 8840 8839 8838 8837 8836 8835 8834 8833 8832 8831 8830 8829

30 SEPTEMBER 1974

11.5 μ m

SECTION 4.2
TEMPERATURE HUMIDITY INFRARED RADIOMETER
DAYTIME MONTAGES

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8036 8035 8034 8033 8032 8031 8030 8029 8028 8027 8026 8025 8024

1 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



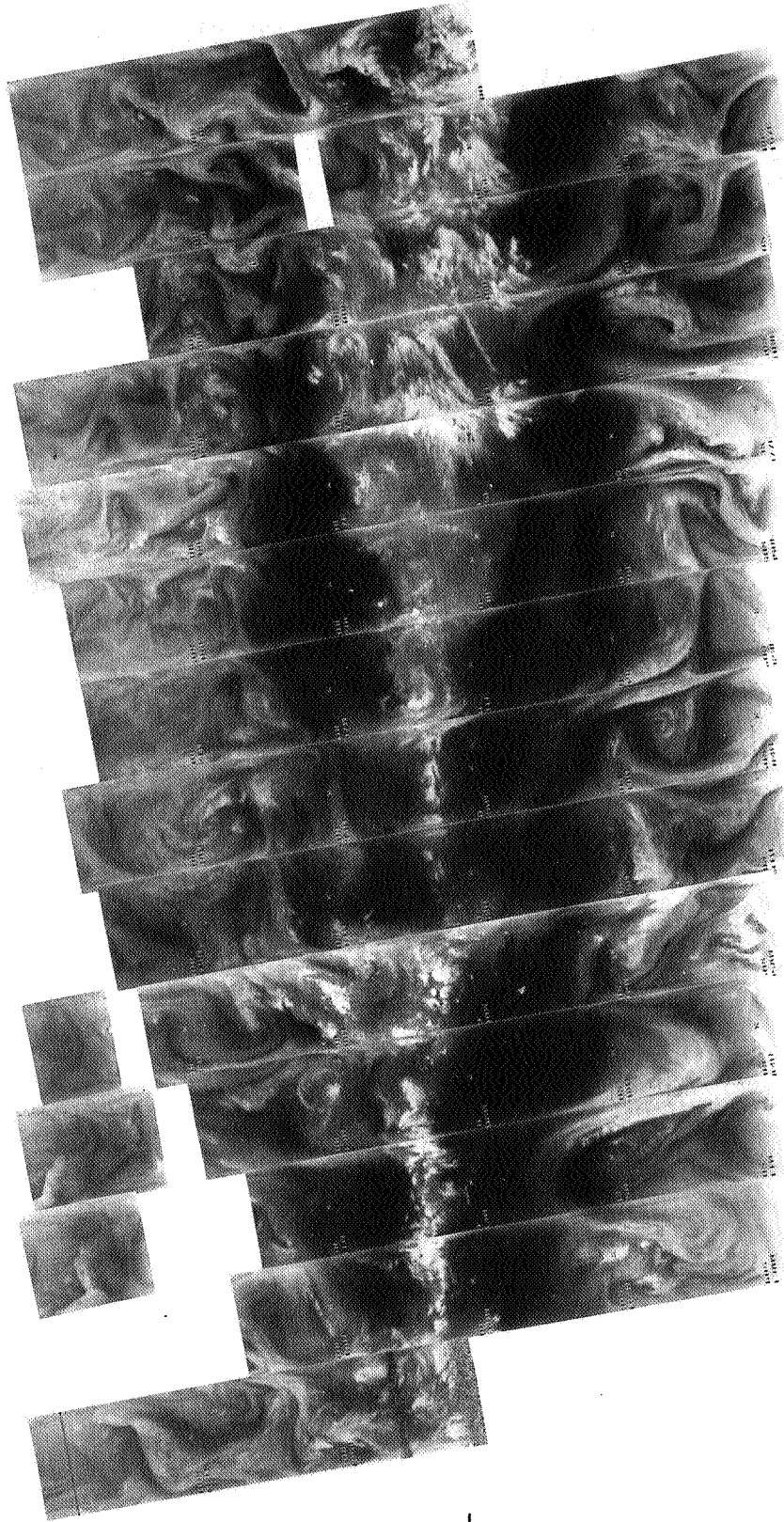
8036 8035 8034 8033 8032 8031 8030 8029 8028 8027 8026 8025 8024

1 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



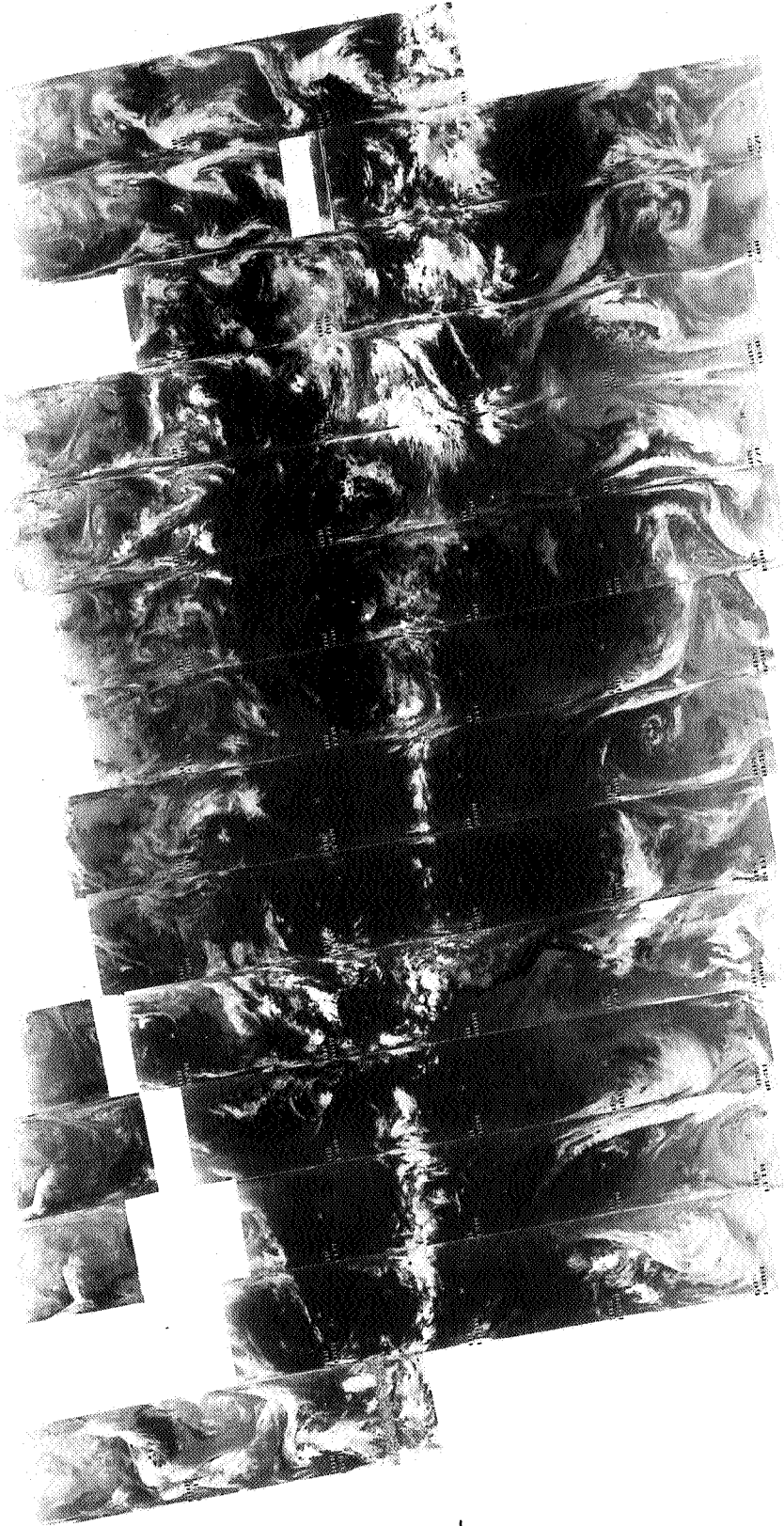
8050 8049 8048 8047 8046 8045 8044 8043 8042 8041 8040 8039 8038 8037

2 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



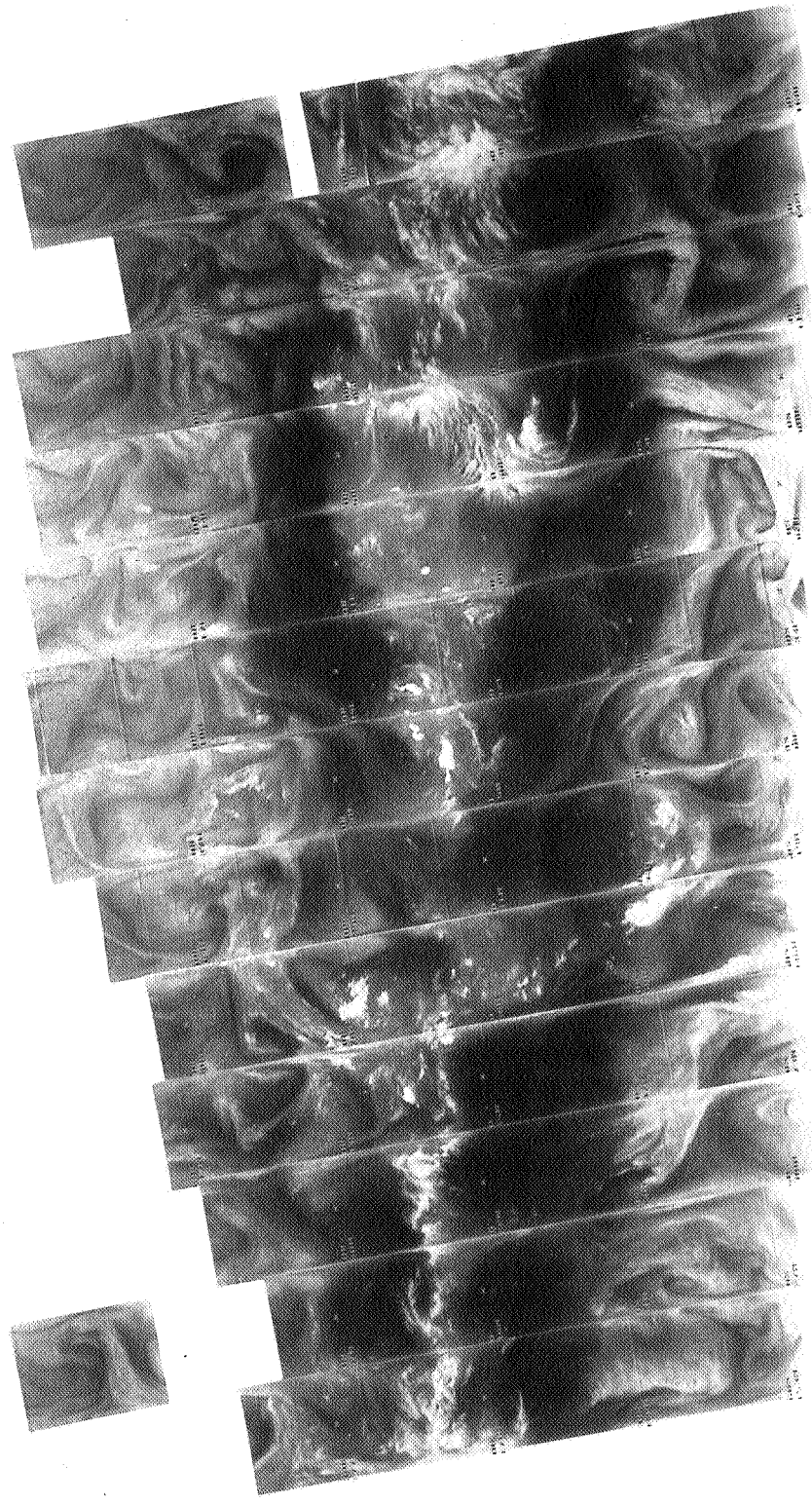
8050 8049 8048 8047 8046 8045 8044 8043 8042 8041 8040 8039 8038 8037

2 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8063 8062 8061 8060 8059 8058 8057 8056 8055 8054 8053 8052 8051

3 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



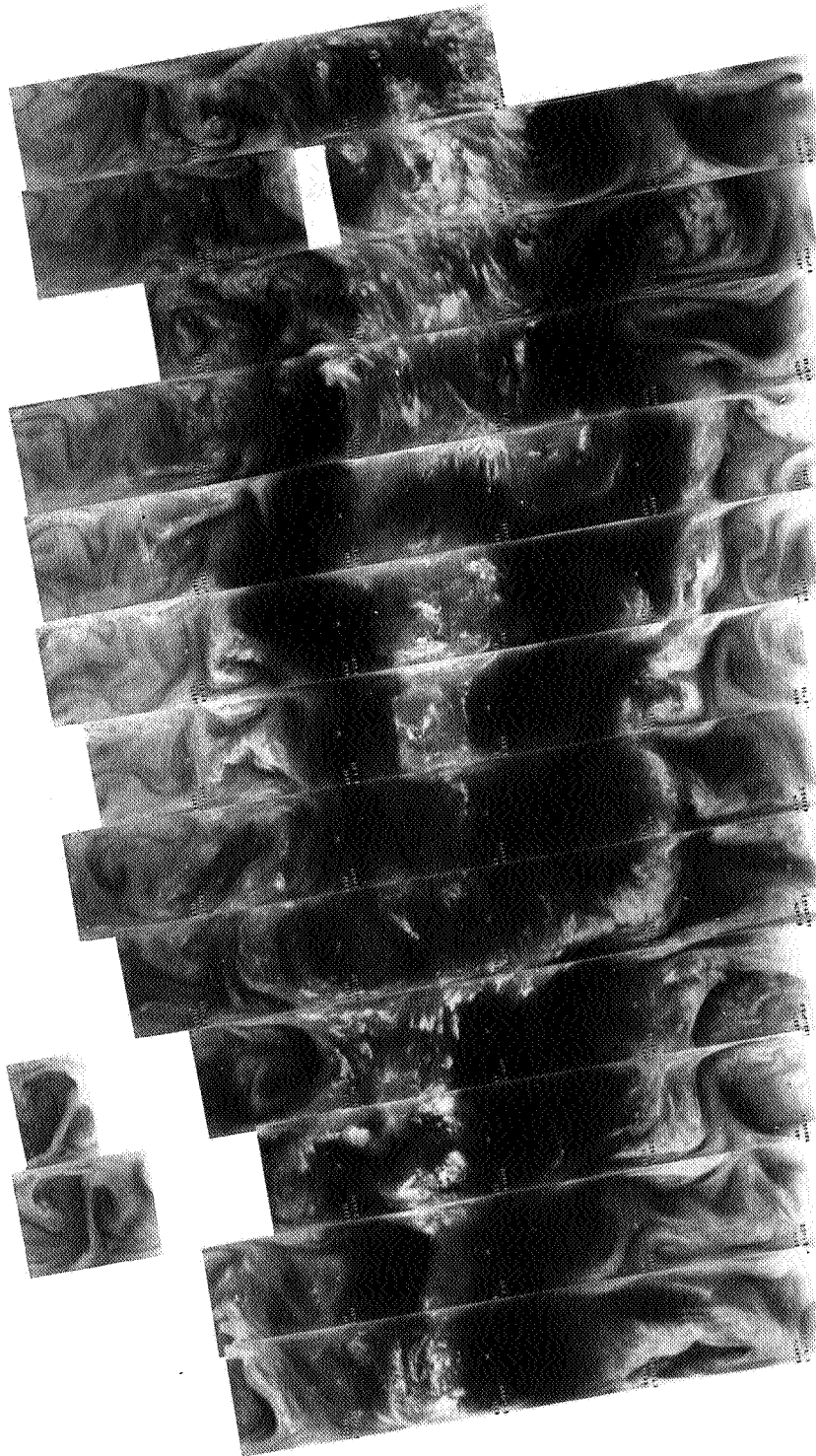
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8063 8062 8061 8060 8059 8058 8057 8056 8055 8054 8053 8052 8051

3 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



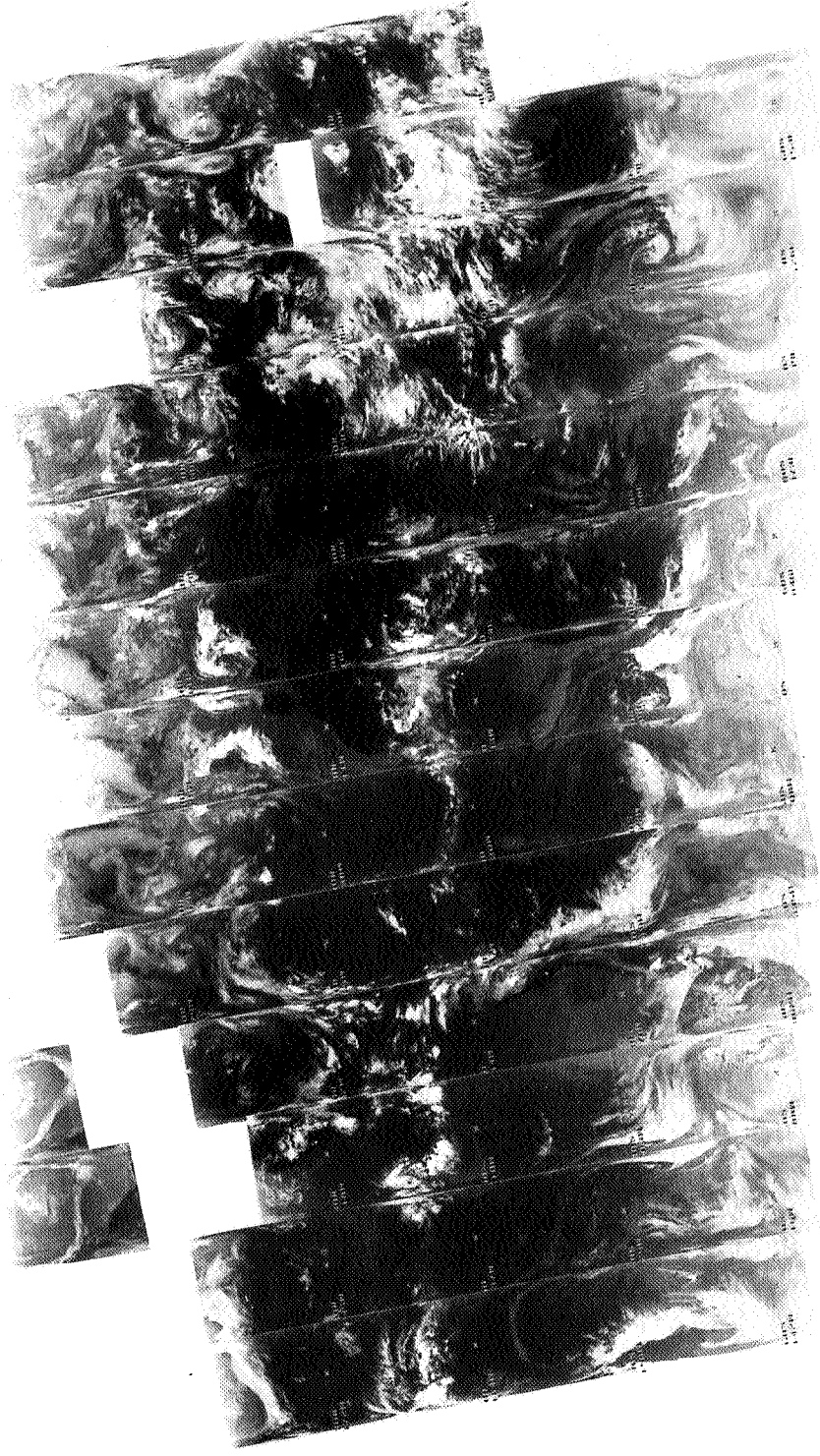
8076 8075 8074 8073 8072 8071 8070 8069 8068 8067 8066 8065 8064

4 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

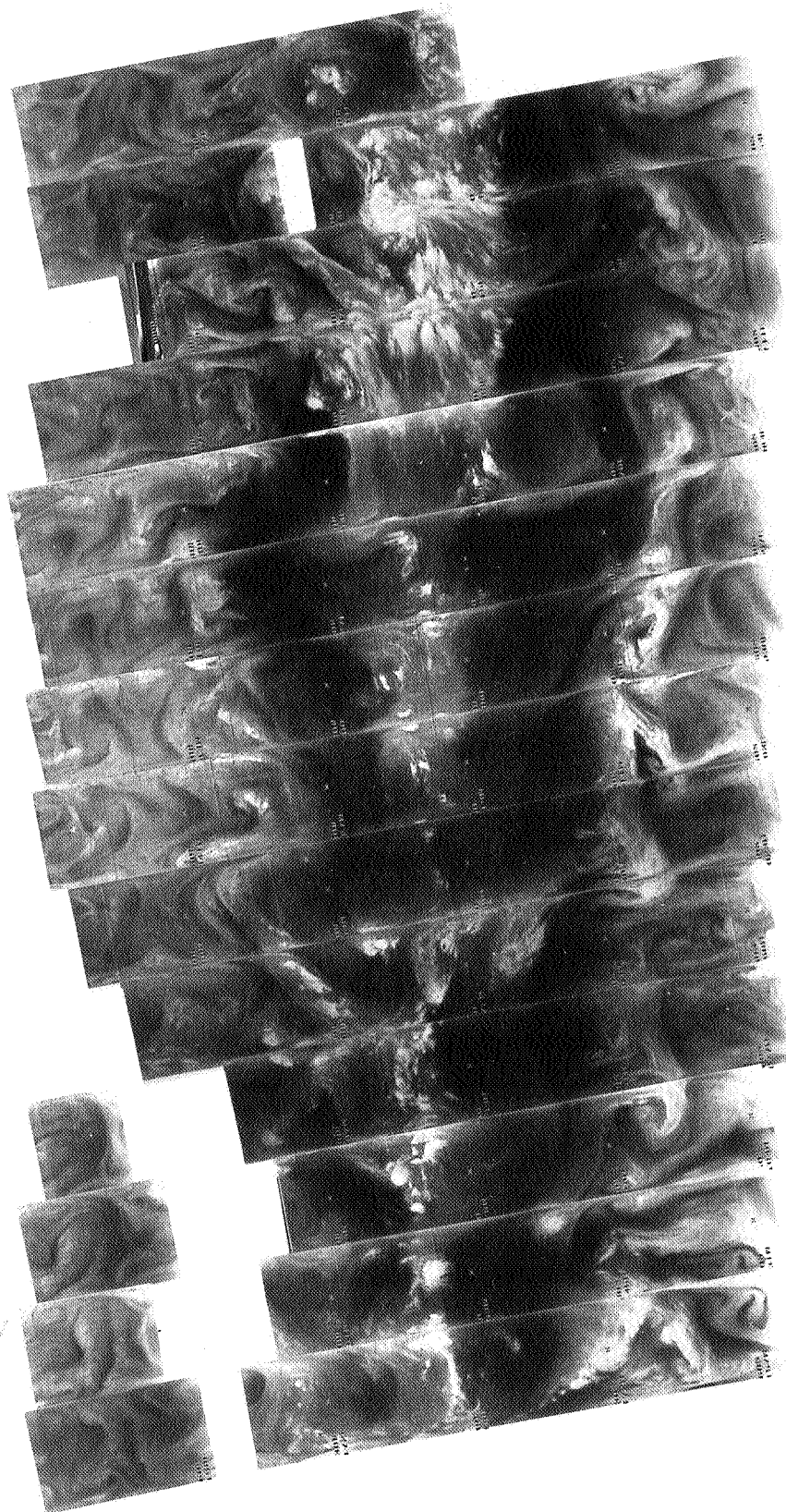
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8076 8075 8074 8073 8072 8071 8070 8069 8068 8067 8066 8065 8064
4 AUGUST 1974
11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8090 8089 8088 8087 8086 8085 8084 8083 8082 8081 8080 8079 8078 8077

5 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8090 8089 8088 8087 8086 8085 8084 8083 8082 8081 8080 8079 8078 8077

5 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8103 8102 8101 8100 8099 8098 8097 8096 8095 8094 8093 8092 8091

6 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



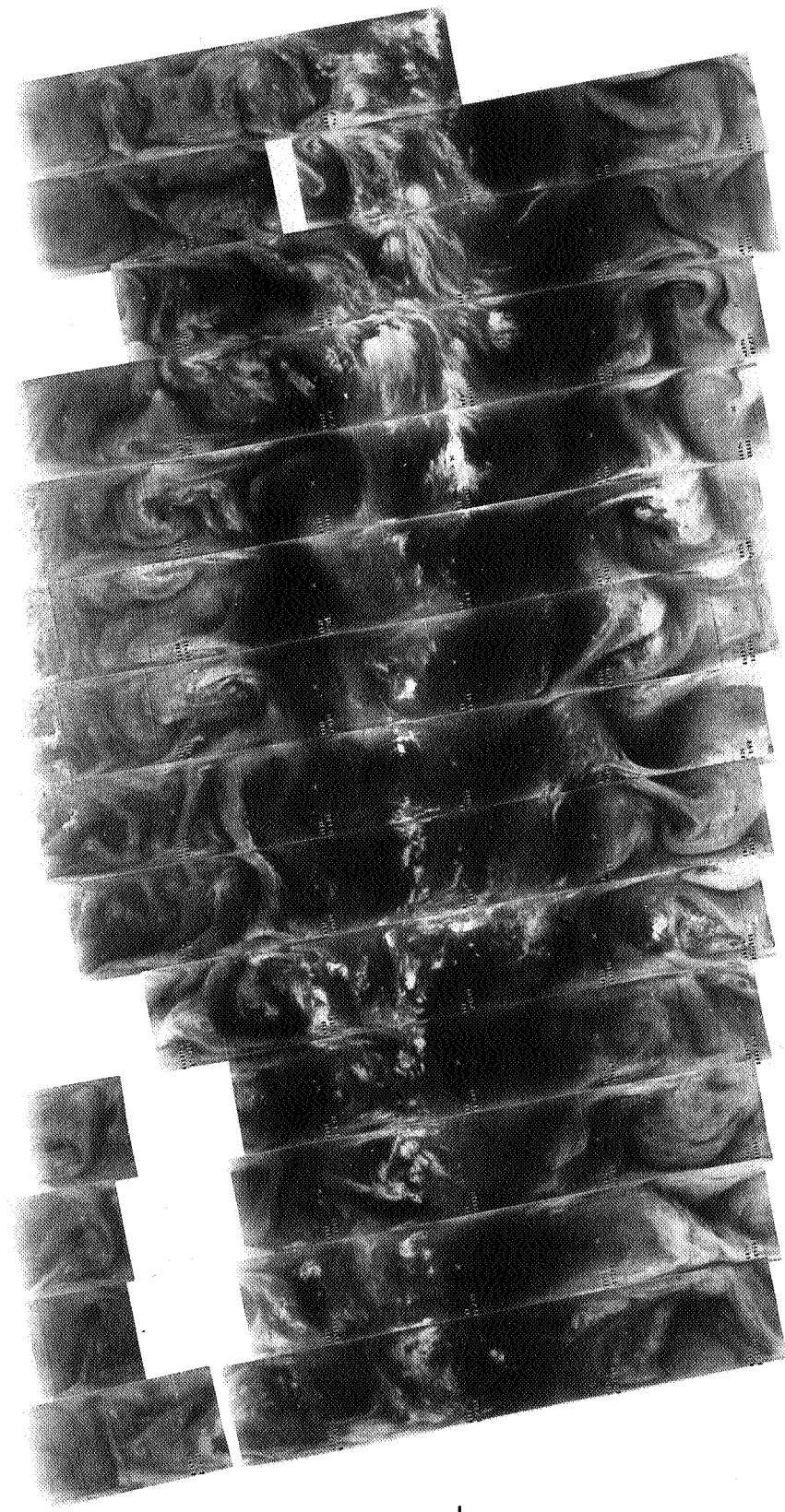
8103 8102 8101 8100 8099 8098 8097 8096 8095 8094 8093 8092 8091

6 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8117 8116 8115 8114 8113 8112 8111 8110 8109 8108 8107 8106 8105 8104

7 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



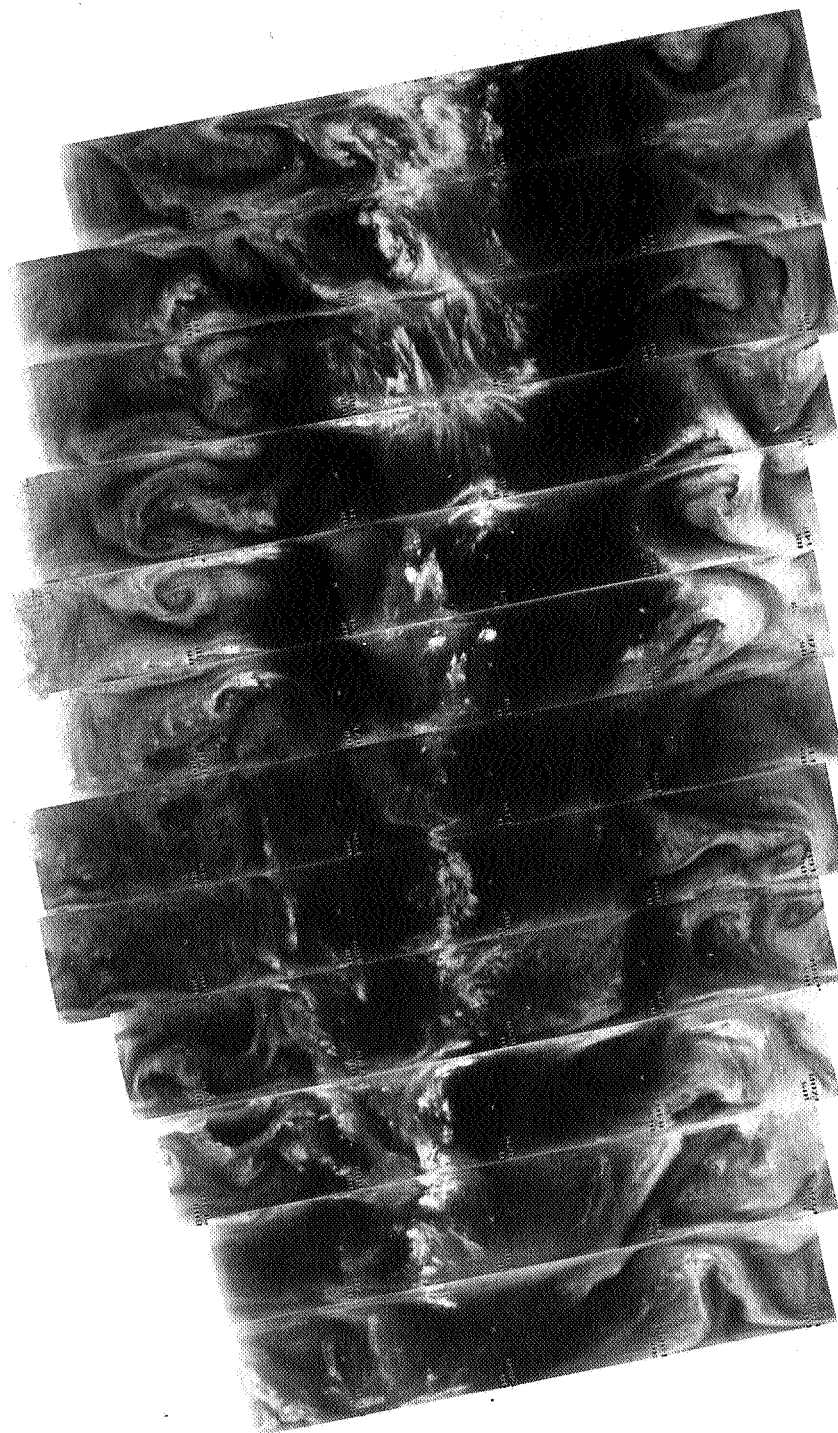
8117 8116 8115 8114 8113 8112 8111 8110 8109 8108 8107 8106 8105 8104

7 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8130 8129 8128 8127 8126 8125 8124 8123 8122 8121 8120 8119 8118

8 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



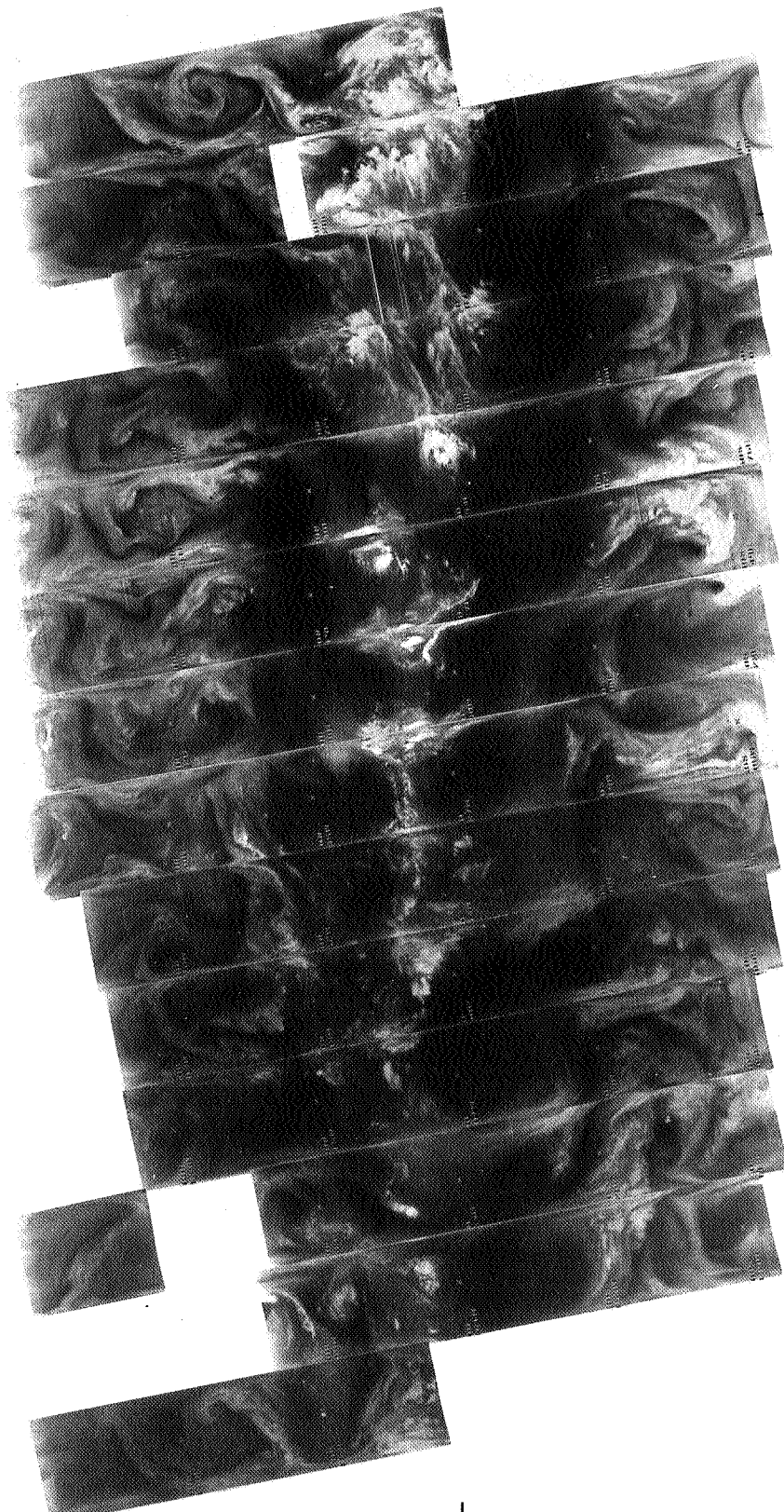
8130 8129 8128 8127 8126 8125 8124 8123 8122 8121 8120 8119 8118

8 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8144 8143 8142 8141 8140 8139 8138 8137 8136 8135 8134 8133 8132 8131

9 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8144 8143 8142 8141 8140 8139 8138 8137 8136 8135 8134 8133 8132 8131

9 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8157 8156 8155 8154 8153 8152 8151 8150 8149 8148 8147 8146 8145

10 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

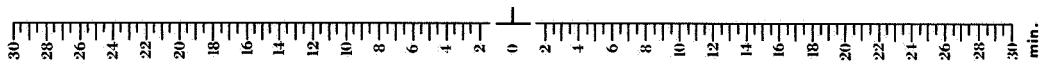


8157 8156 8155 8154 8153 8152 8151 8150 8149 8148 8147 8146 8145

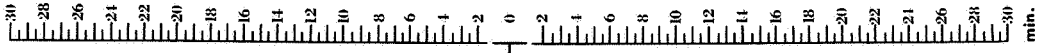
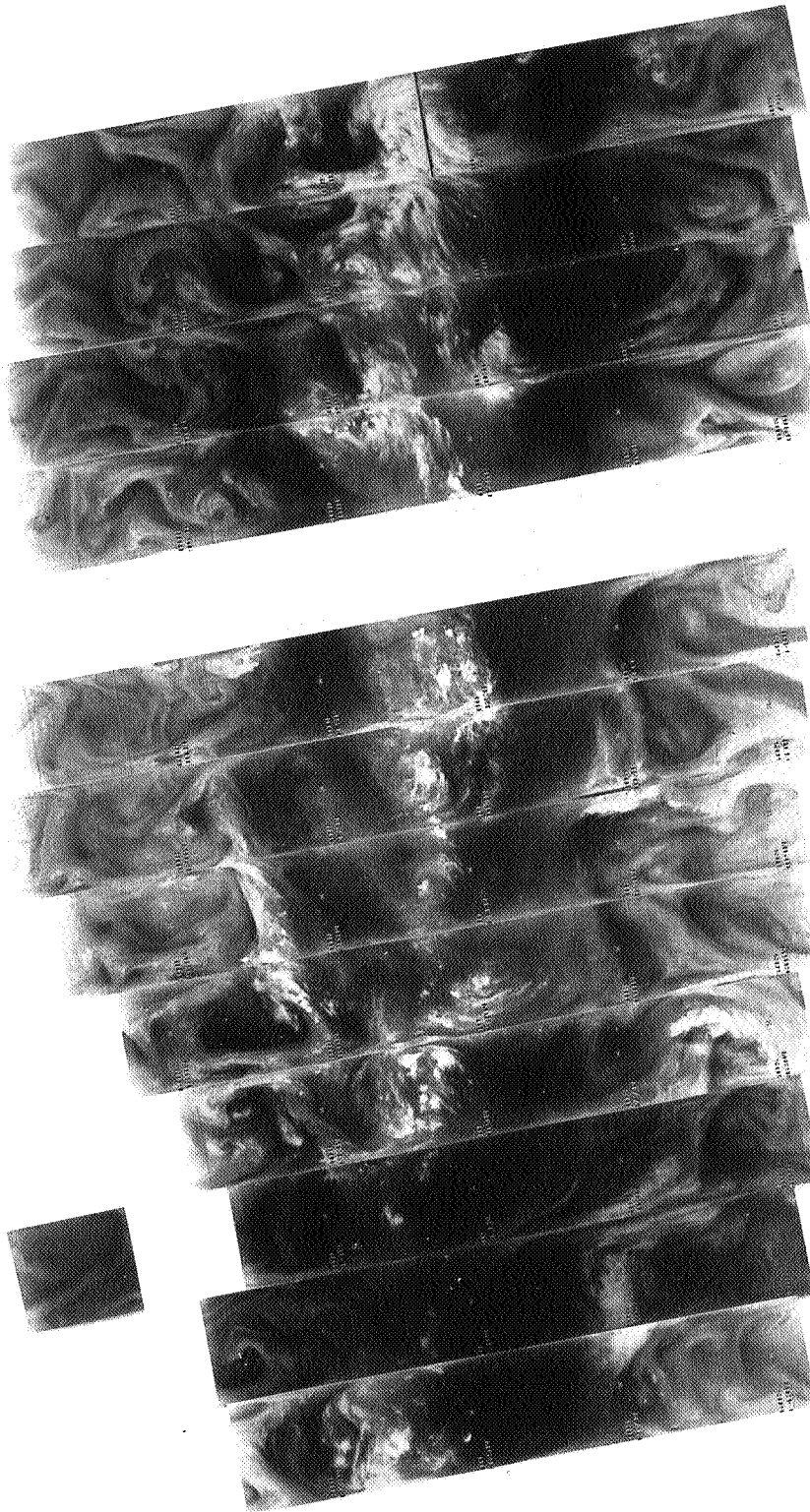
10 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-148

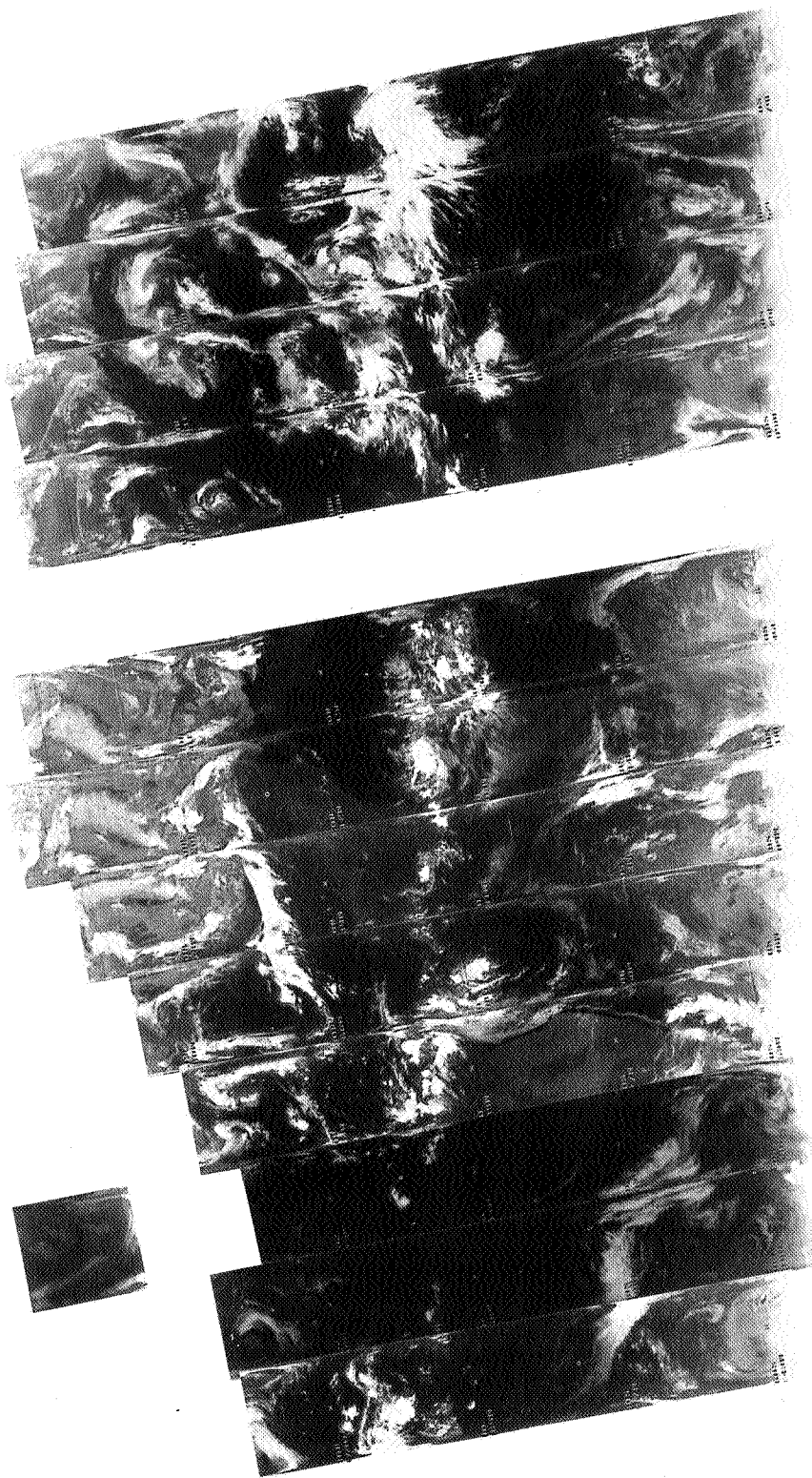


8170 8169 8168 8167 8166 8165 8164 8163 8162 8161 8160 8159 8158

11 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



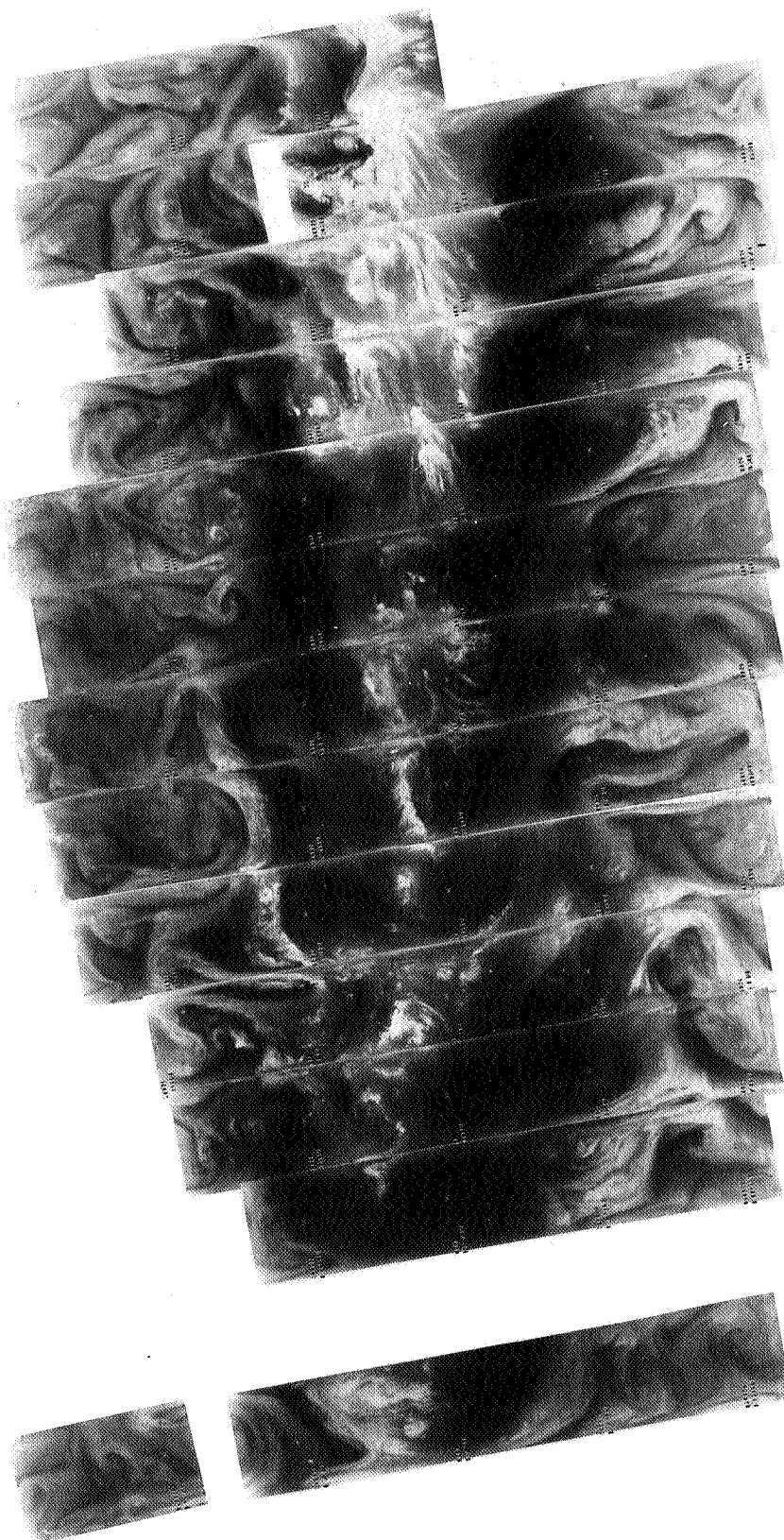
8170 8169 8168 8167 8166 8165 8164 8163 8162 8161 8160 8159 8158

11 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

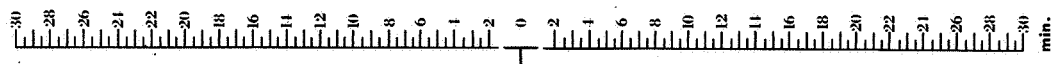


8184 8183 8182 8181 8180 8179 8178 8177 8176 8175 8174 8173 8172 8171

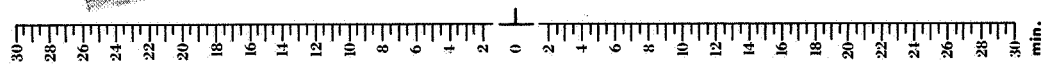
12 AUGUST 1974

6.7 μ m

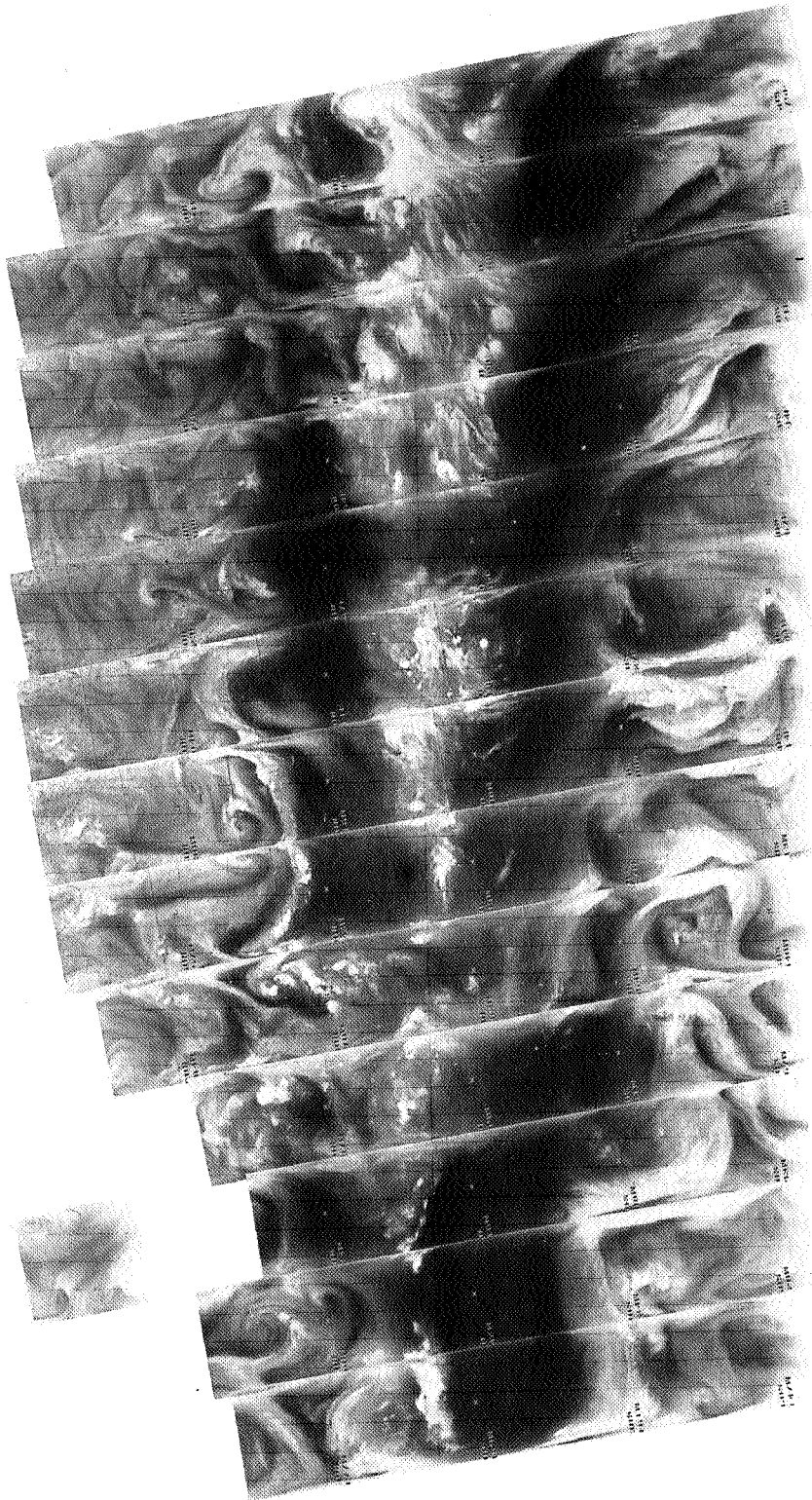
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



12 AUGUST 1974

11.5 μm 

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8197 8196 8195 8194 8193 8192 8191 8190 8189 8188 8187 8186 8185

13 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

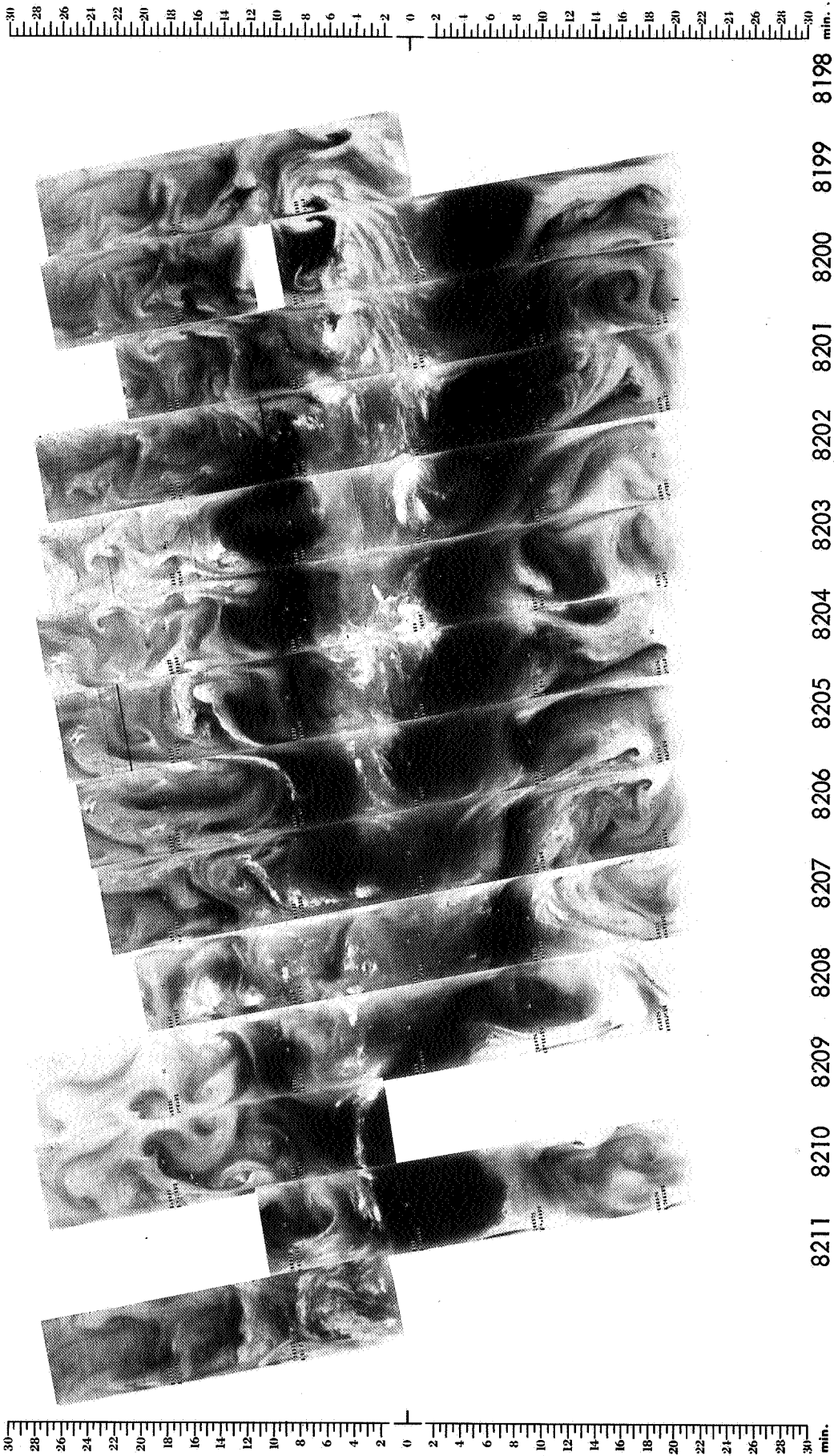


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8197 8196 8195 8194 8193 8192 8191 8190 8189 8188 8187 8186 8185

13 AUGUST 1974

11.5 μ m



14 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8211 8210 8209 8208 8207 8206 8205 8204 8203 8202 8201 8200 8199 8198

14 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8224 8223 8222 8221 8220 8219 8218 8217 8216 8215 8214 8213 8212

15 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



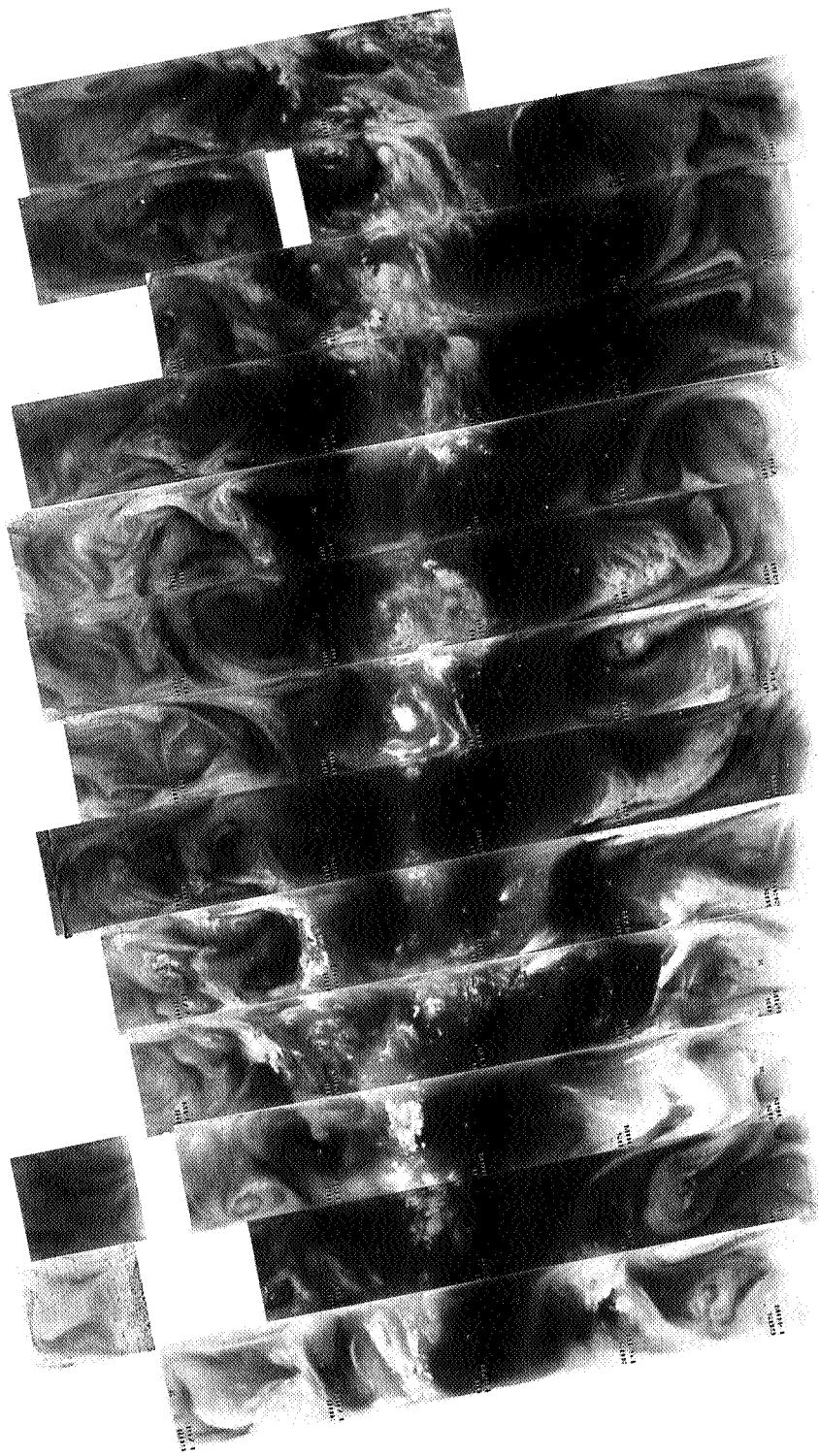
8224 8223 8222 8221 8220 8219 8218 8217 8216 8215 8214 8213 8212

15 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8237 8236 8235 8234 8233 8232 8231 8230 8229 8228 8227 8226 8225

16 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



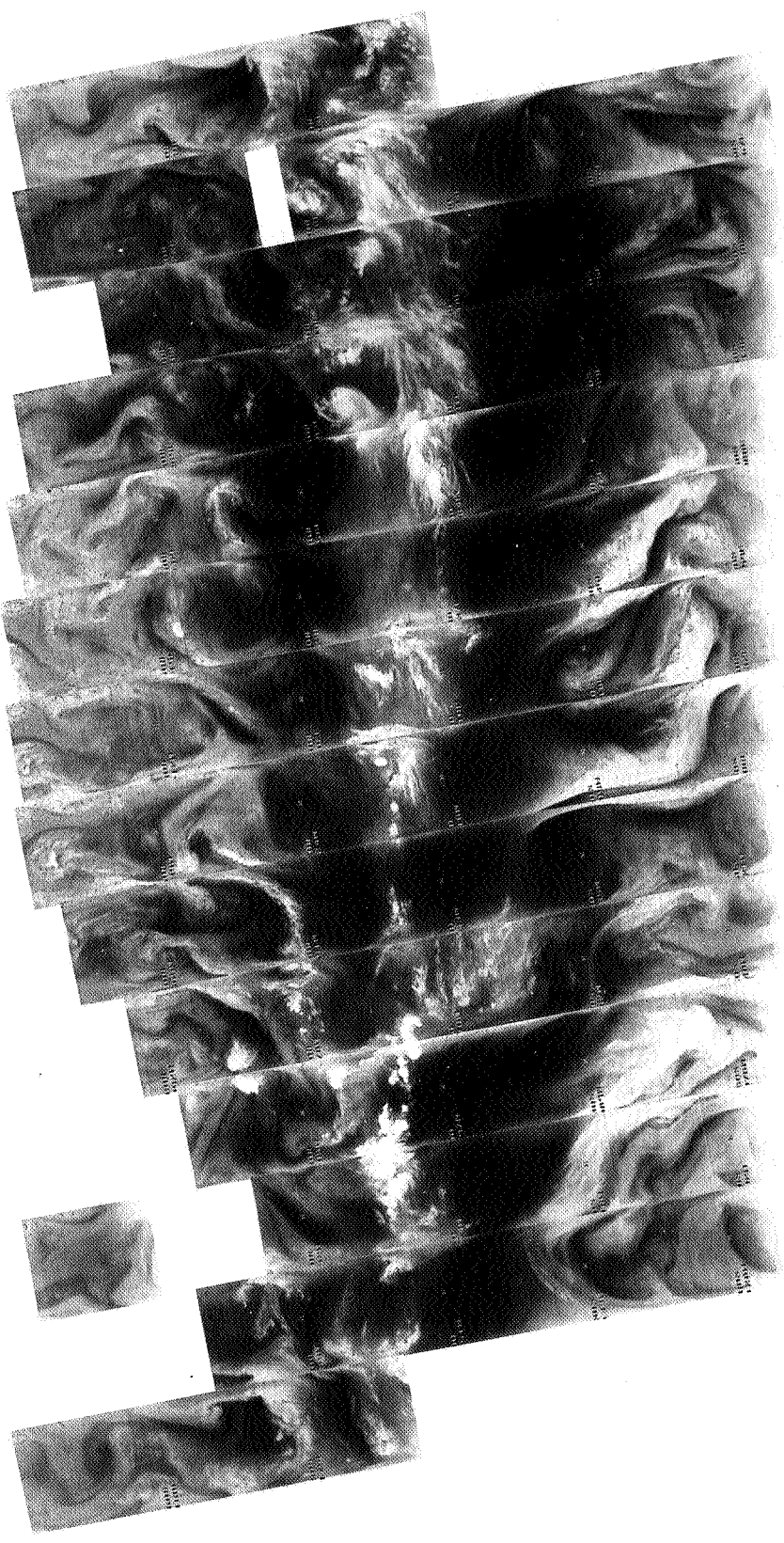
8237 8236 8235 8234 8233 8232 8231 8230 8229 8228 8227 8226 8225

16 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8251 8250 8249 8248 8247 8246 8245 8244 8243 8242 8241 8240 8239 8238

17 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8251 8250 8249 8248 8247 8246 8245 8244 8243 8242 8241 8240 8239 8238

17 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8264 8263 8262 8261 8260 8259 8258 8257 8256 8255 8254 8253 8252

18 AUGUST 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



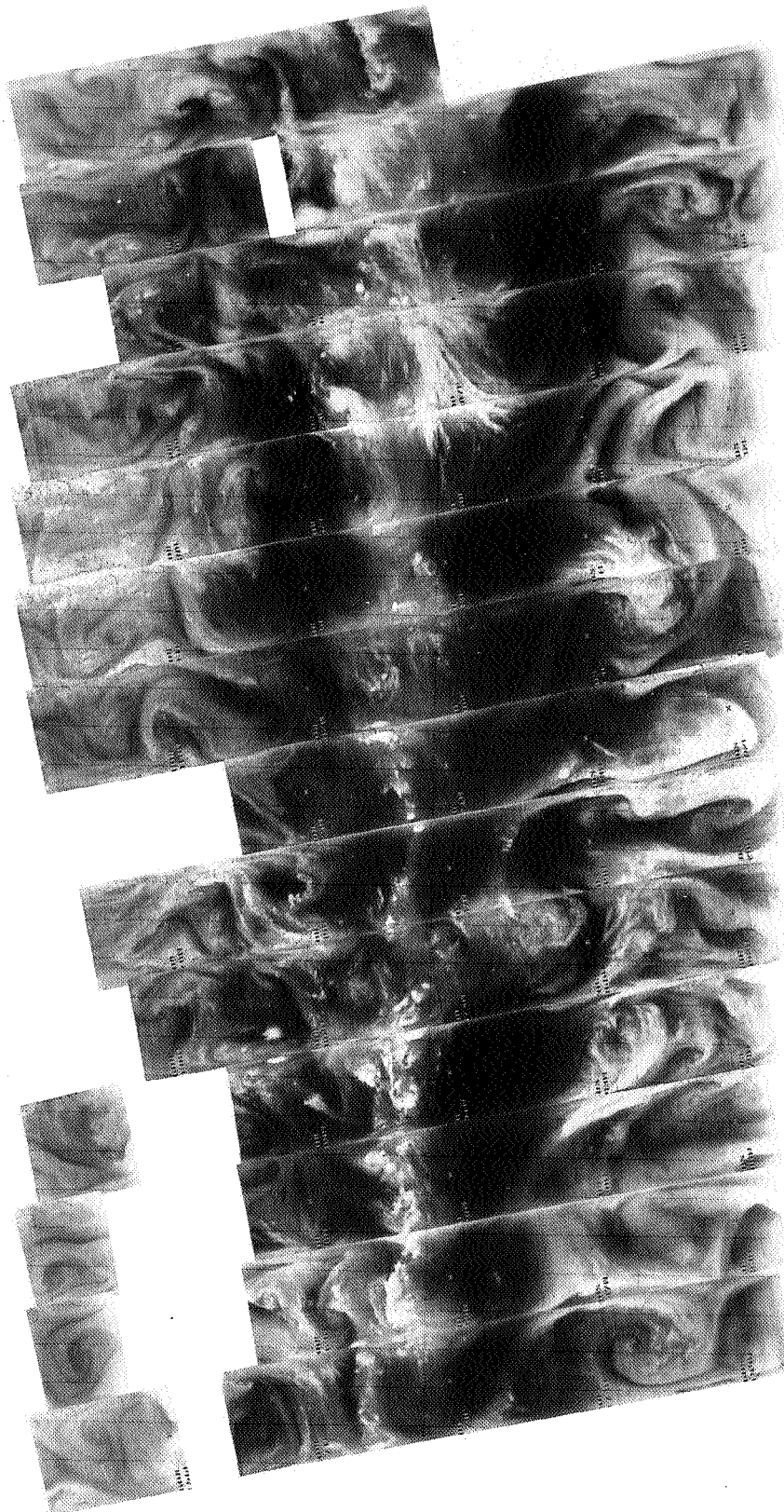
8264 8263 8262 8261 8260 8259 8258 8257 8256 8255 8254 8253 8252

18 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



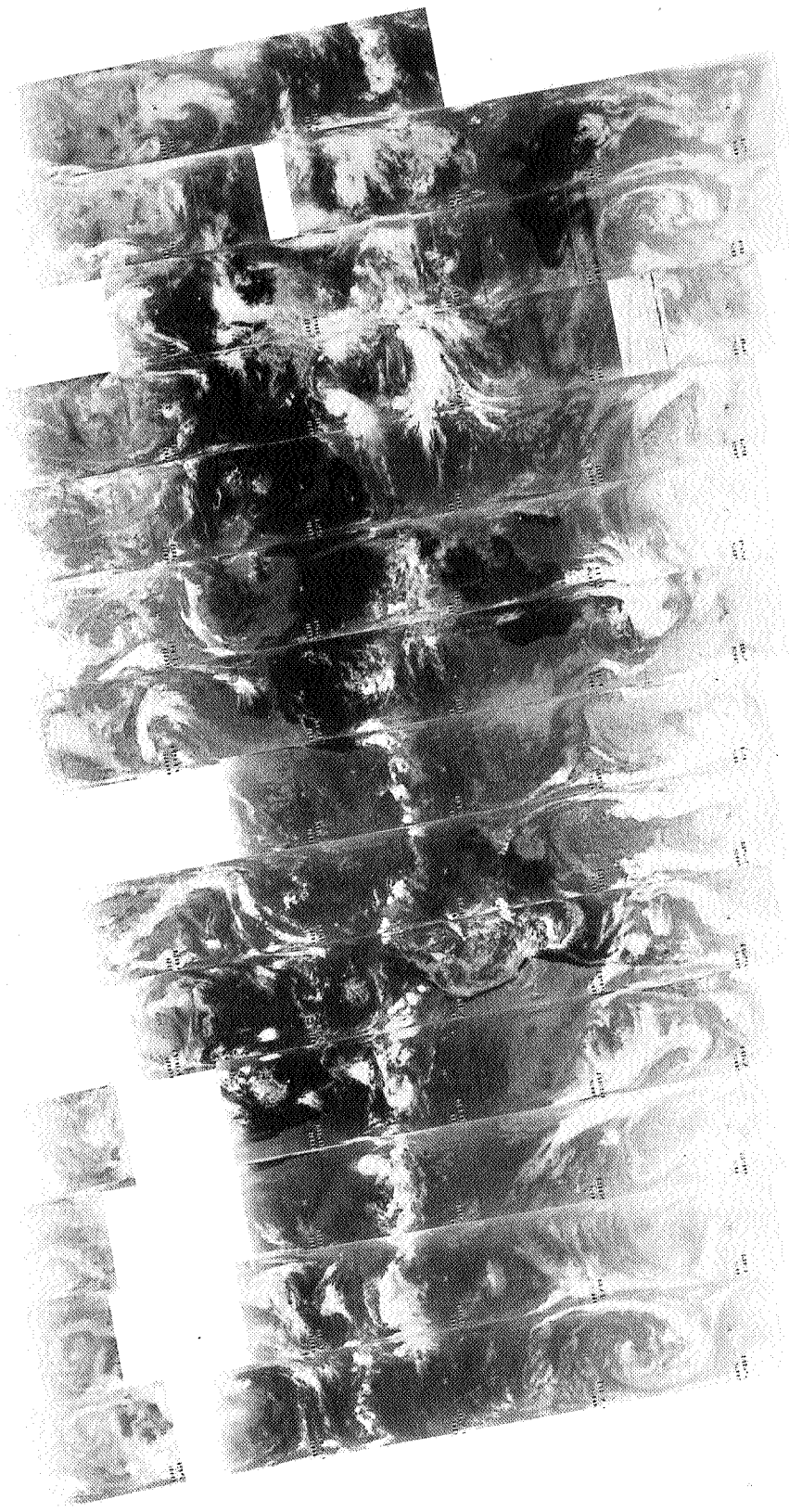
8278 8277 8276 8275 8274 8273 8272 8271 8270 8269 8268 8267 8266 8265

19 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



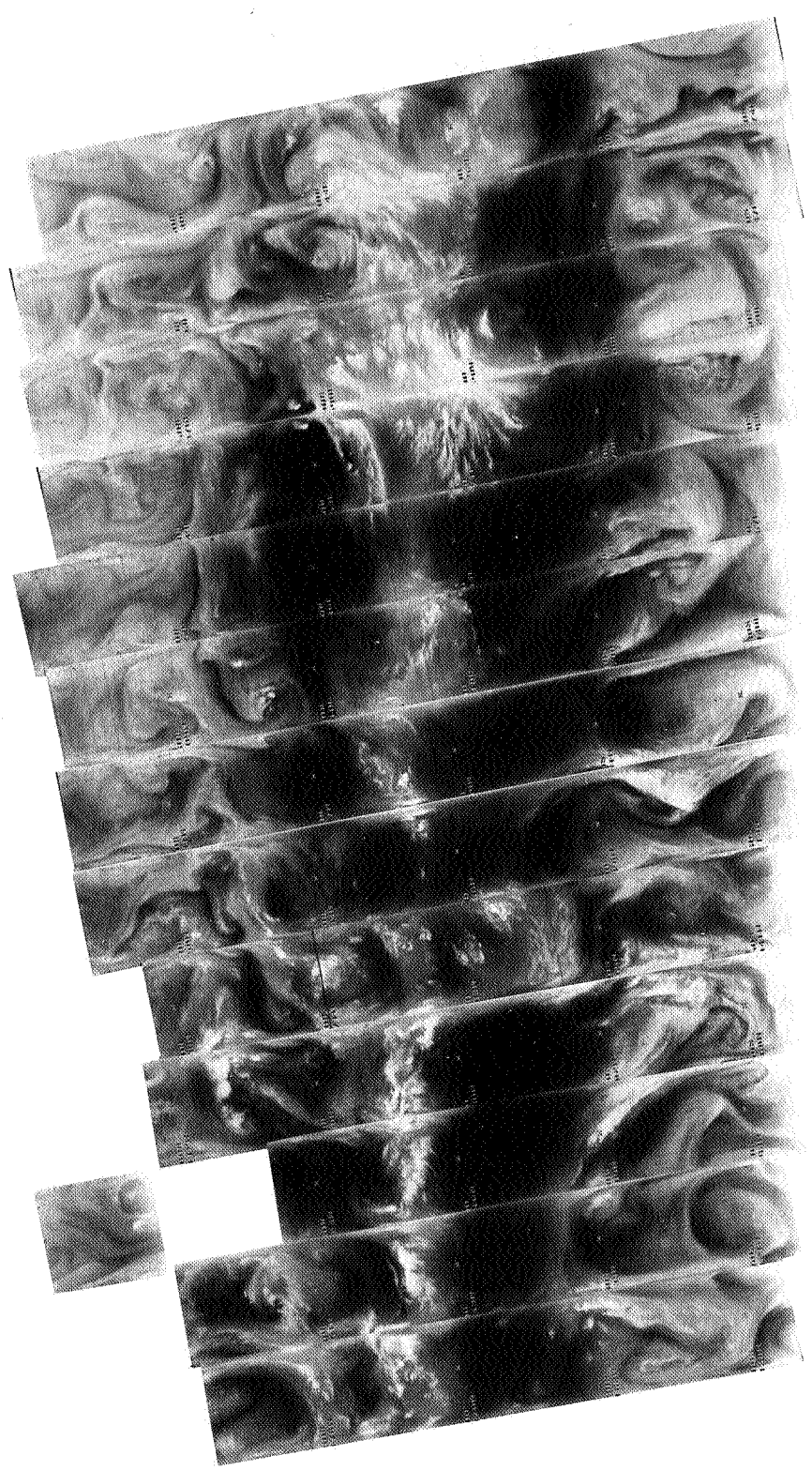
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8278 8277 8276 8275 8274 8273 8272 8271 8270 8269 8268 8267 8266 8265

19 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



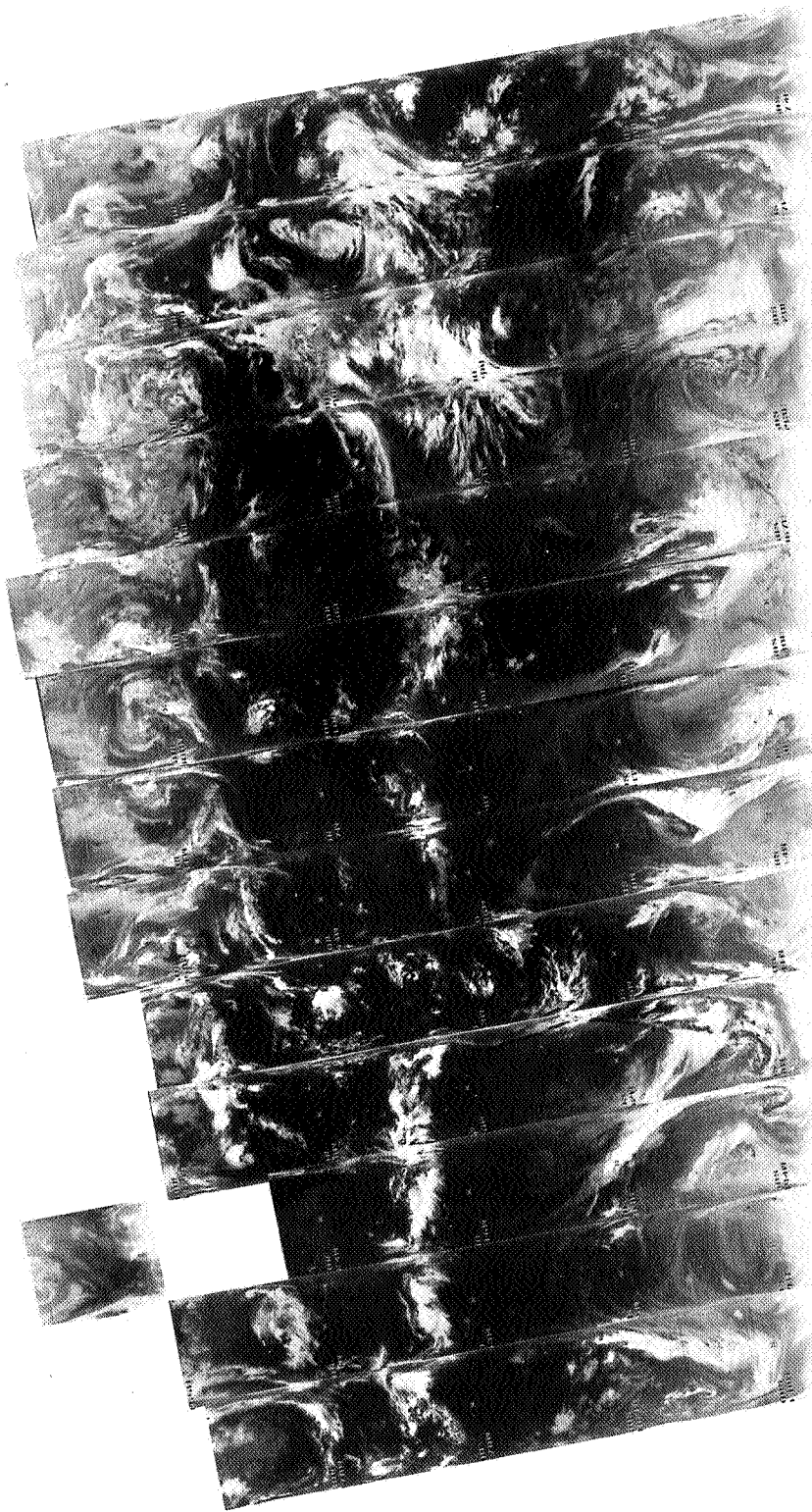
8291 8290 8289 8288 8287 8286 8285 8284 8283 8282 8281 8280 8279

20 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



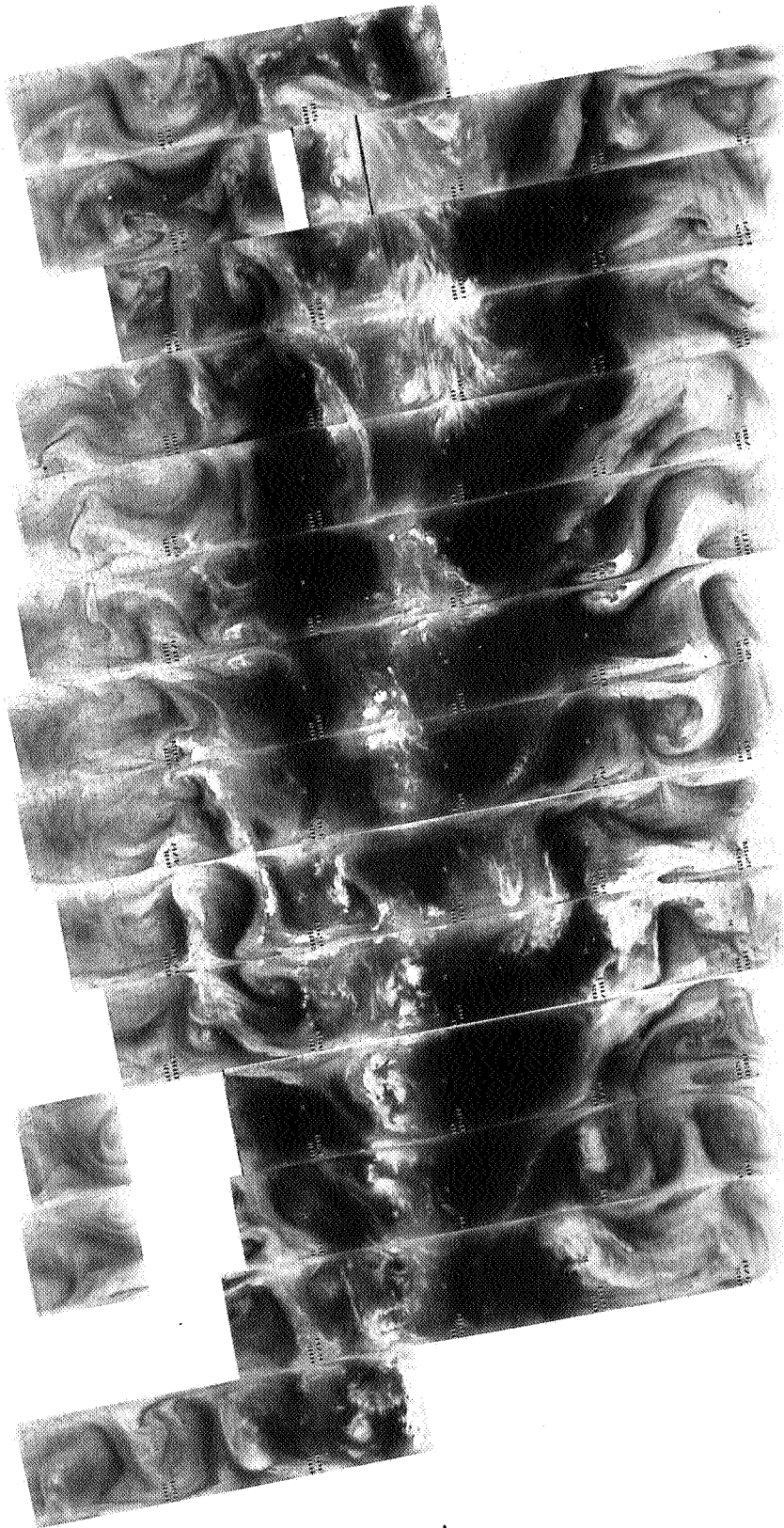
8291 8290 8289 8288 8287 8286 8285 8284 8283 8282 8281 8280 8279

20 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



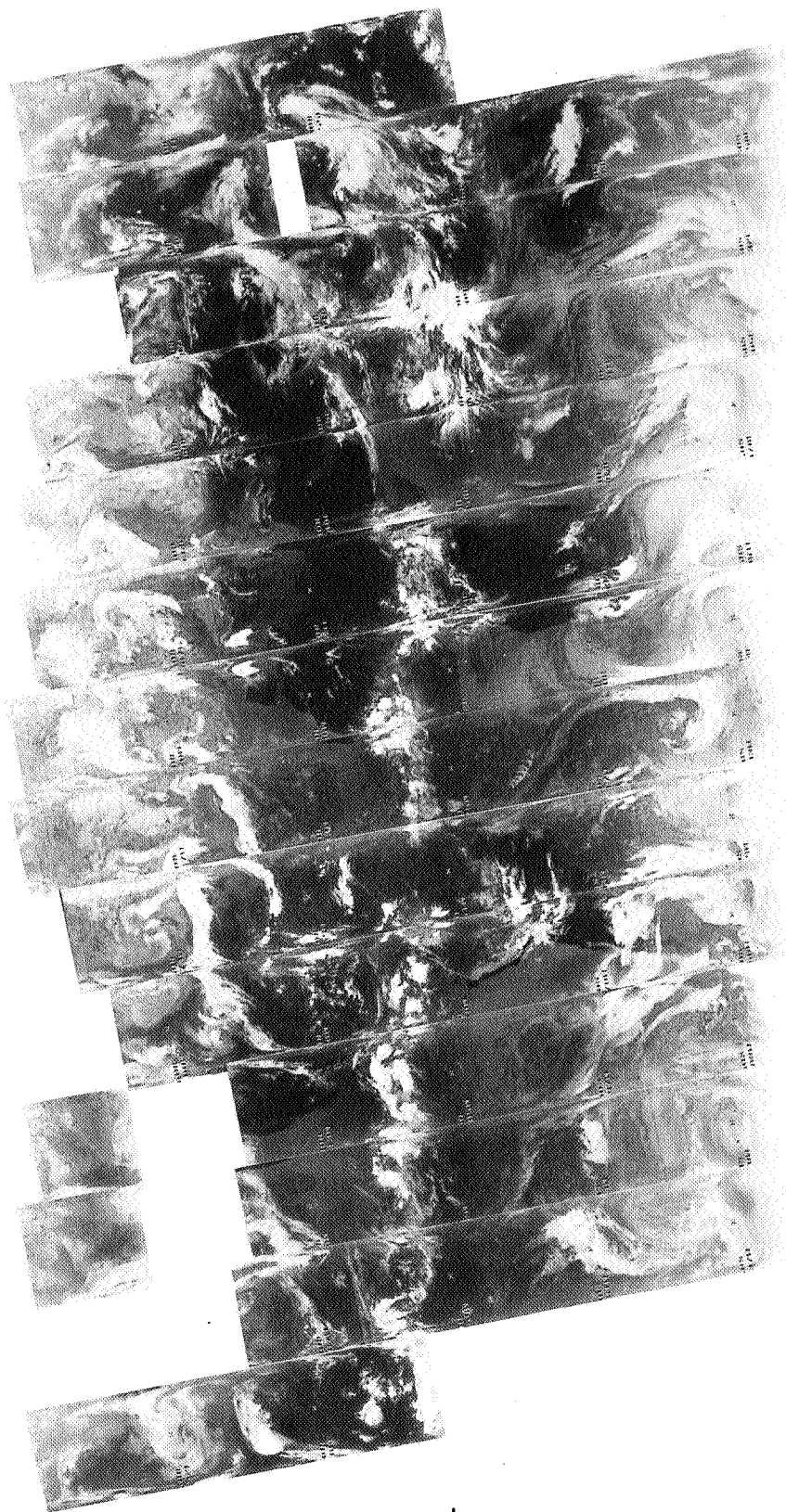
8305 8304 8303 8302 8301 8300 8299 8298 8297 8296 8295 8294 8293 8292

21 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



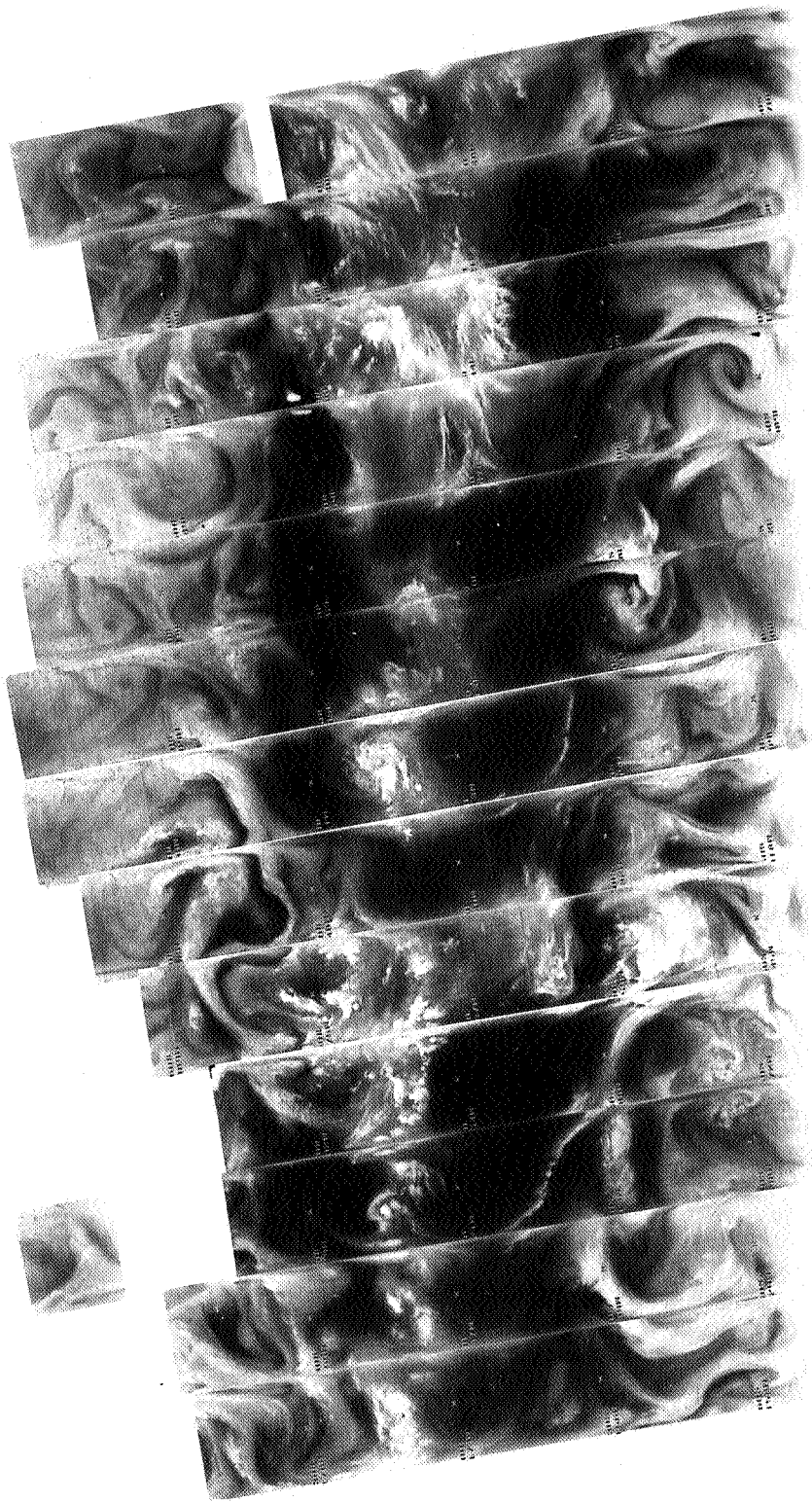
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8305 8304 8303 8302 8301 8300 8299 8298 8297 8296 8295 8294 8293 8292

21 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



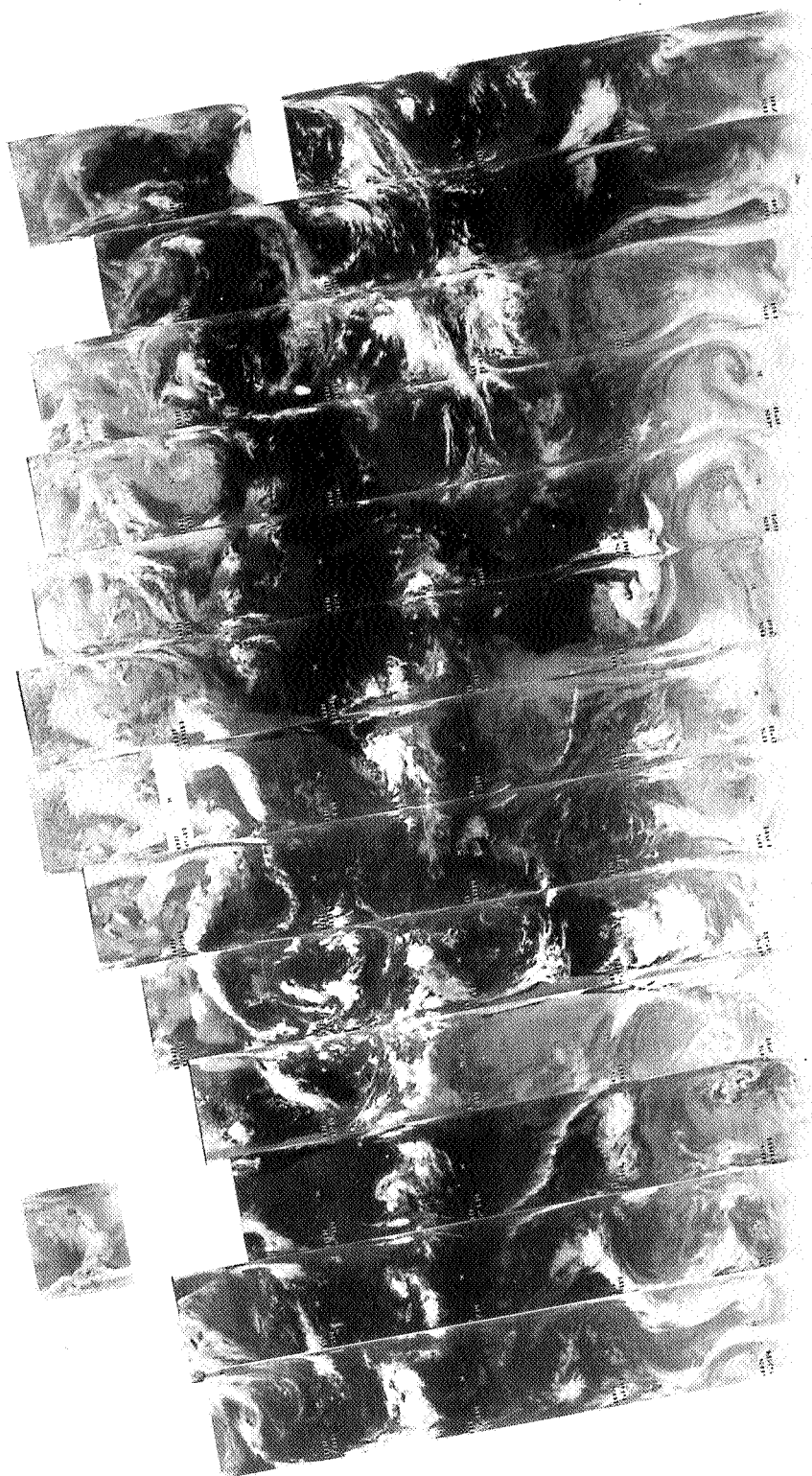
8318 8317 8316 8315 8314 8313 8312 8311 8310 8309 8308 8307 8306

22 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



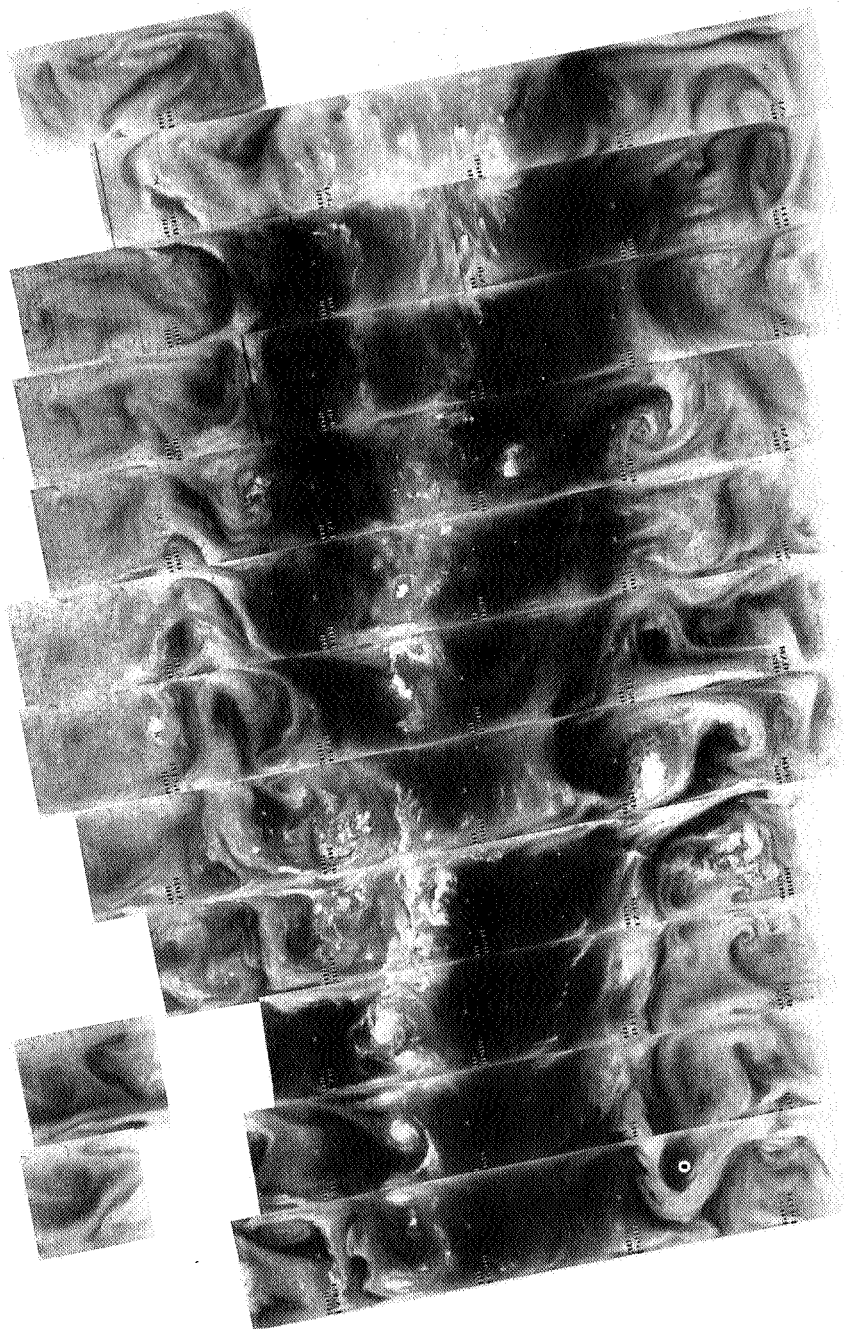
8318 8317 8316 8315 8314 8313 8312 8311 8310 8309 8308 8307 8306

22 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8331 8330 8329 8328 8327 8326 8325 8324 8323 8322 8321 8320 8319

23 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8331 8330 8329 8328 8327 8326 8325 8324 8323 8322 8321 8320 8319

23 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8345 8344 8343 8342 8341 8340 8339 8338 8337 8336 8335 8334 8333 8332

24 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



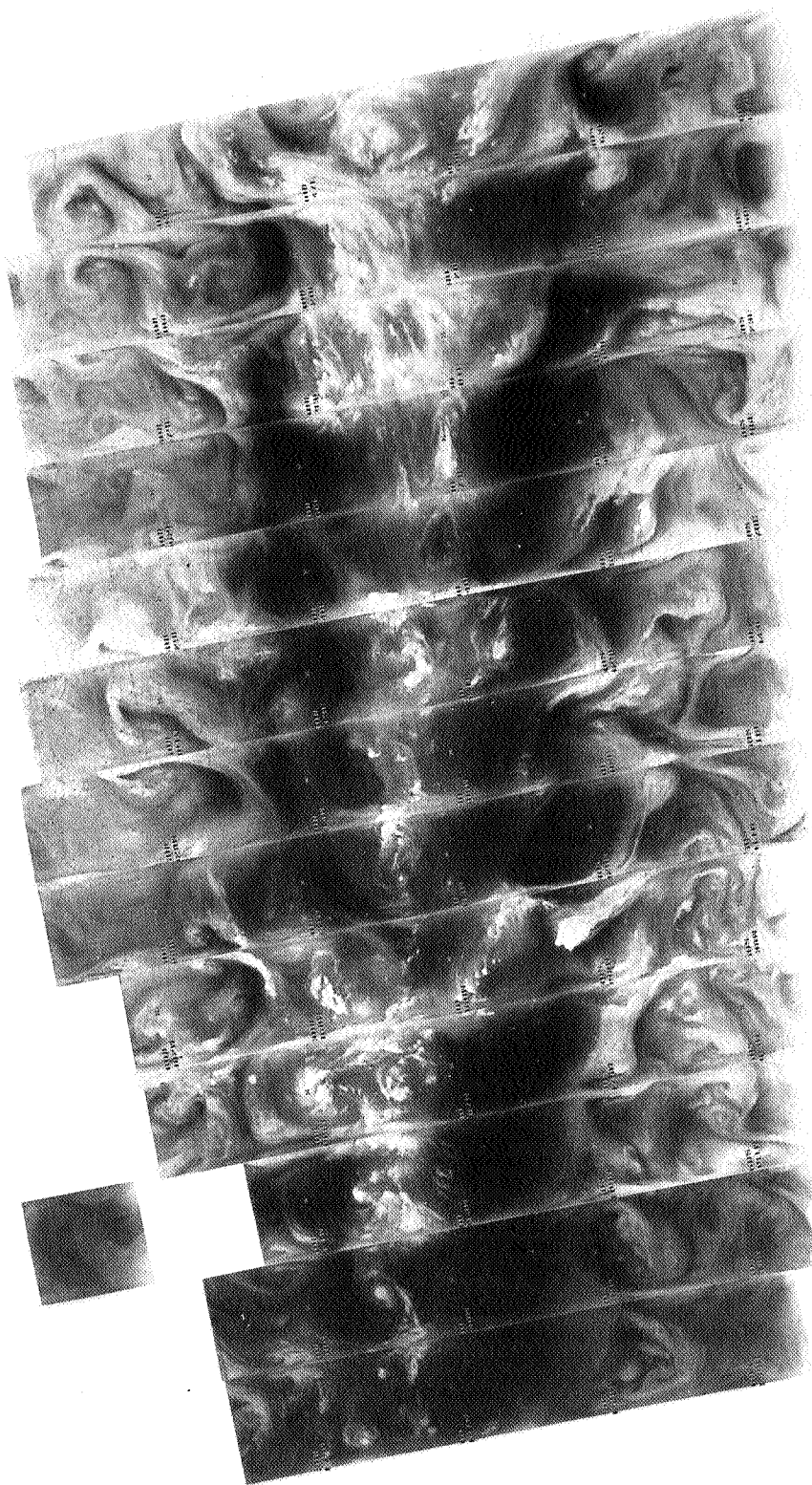
8345 8344 8343 8342 8341 8340 8339 8338 8337 8336 8335 8334 8333 8332

24 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8358 8357 8356 8355 8354 8353 8352 8351 8350 8349 8348 8347 8346

25 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

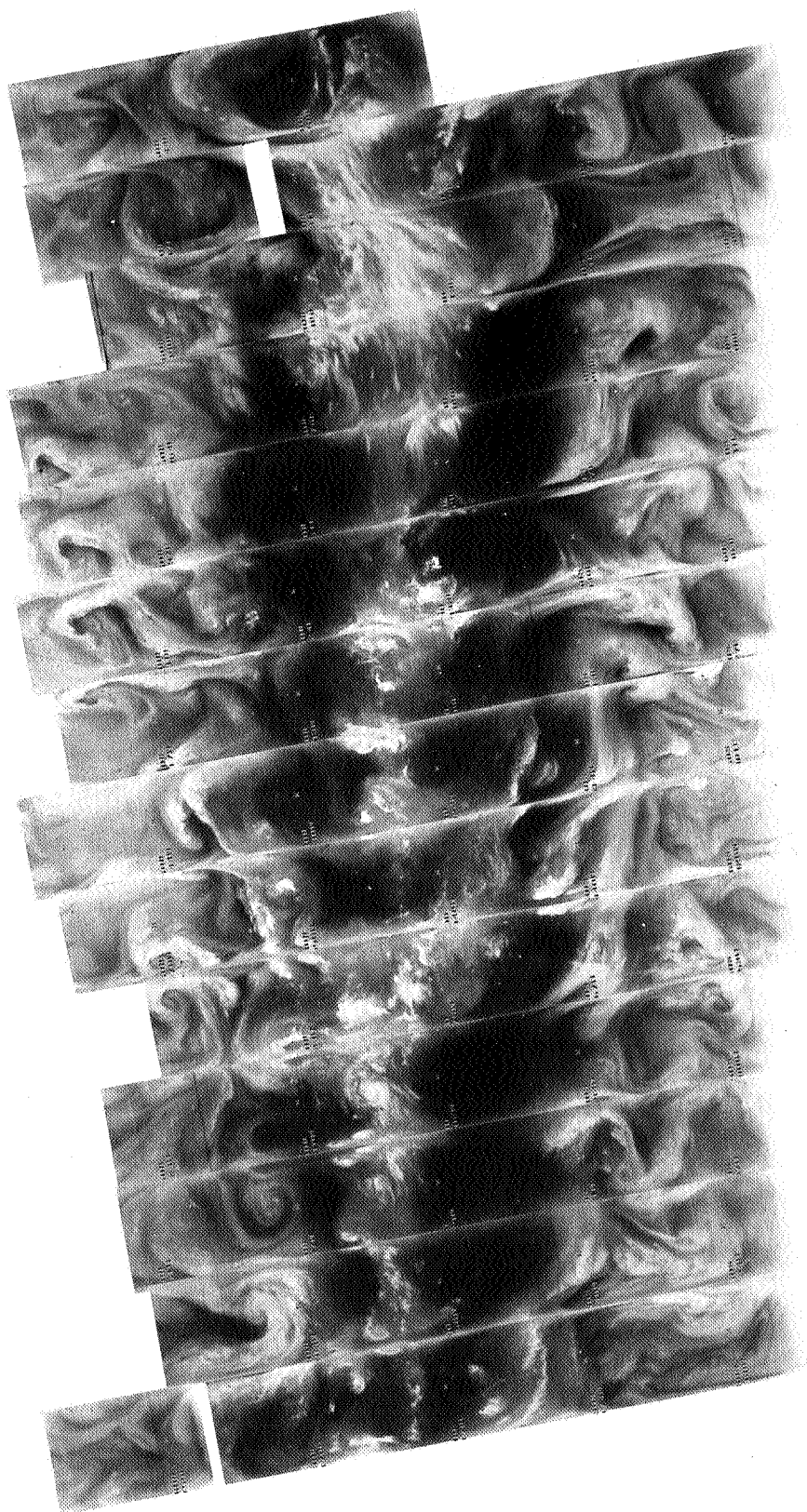
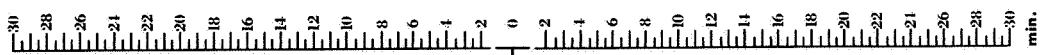


8358 8357 8356 8355 8354 8353 8352 8351 8350 8349 8348 8347 8346

25 AUGUST 1974

11.5 μ m

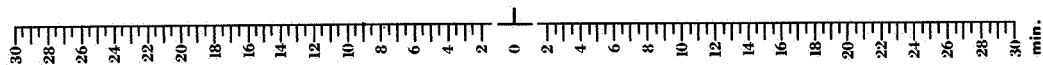
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8372 8371 8370 8369 8368 8367 8366 8365 8364 8363 8362 8361 8360 8359

26 AUGUST 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8372 8371 8370 8369 8368 8367 8366 8365 8364 8363 8362 8361 8360 8359

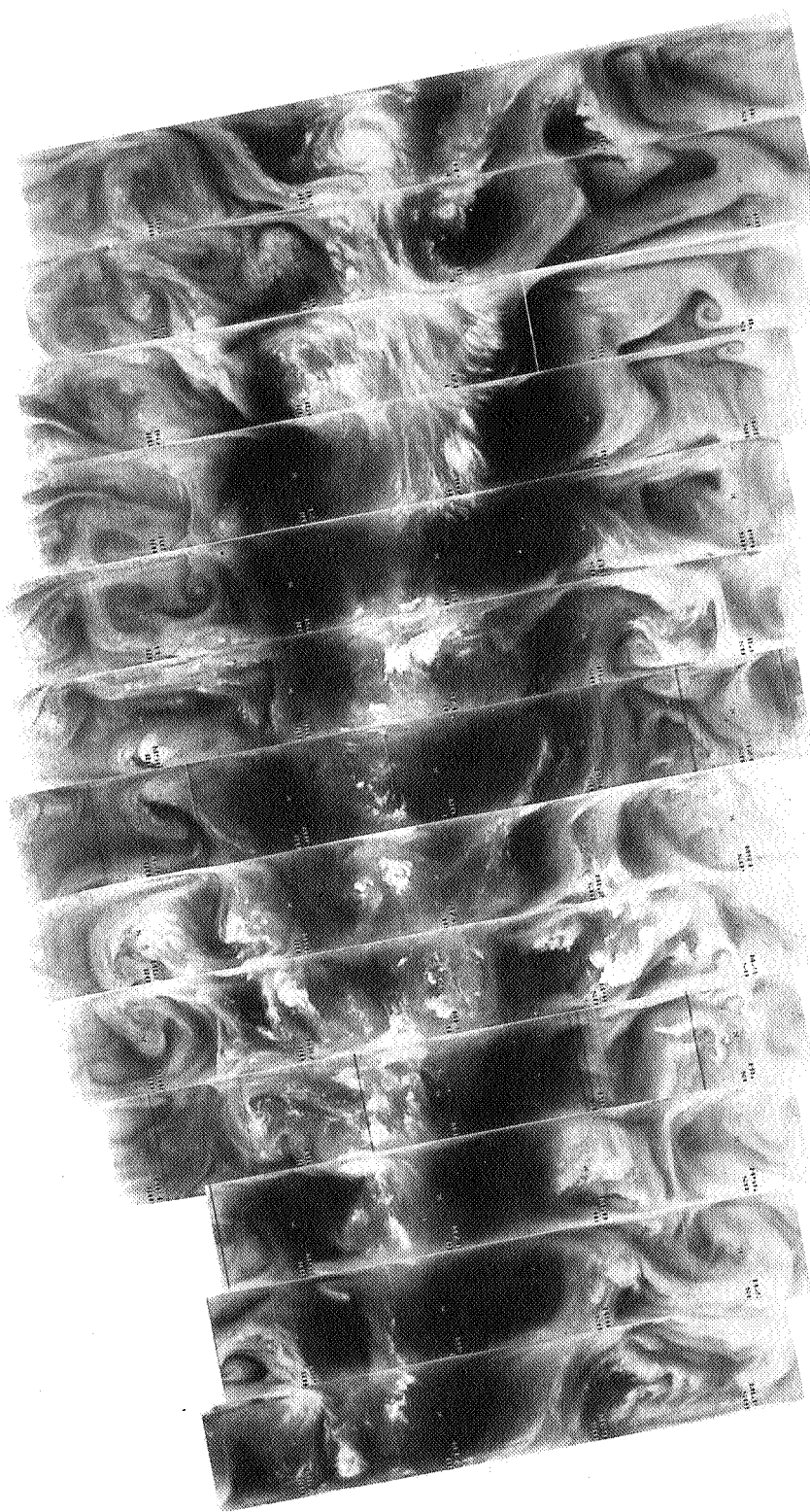
26 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

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30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8385 8384 8383 8382 8381 8380 8379 8378 8377 8376 8375 8374 8373

27 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.



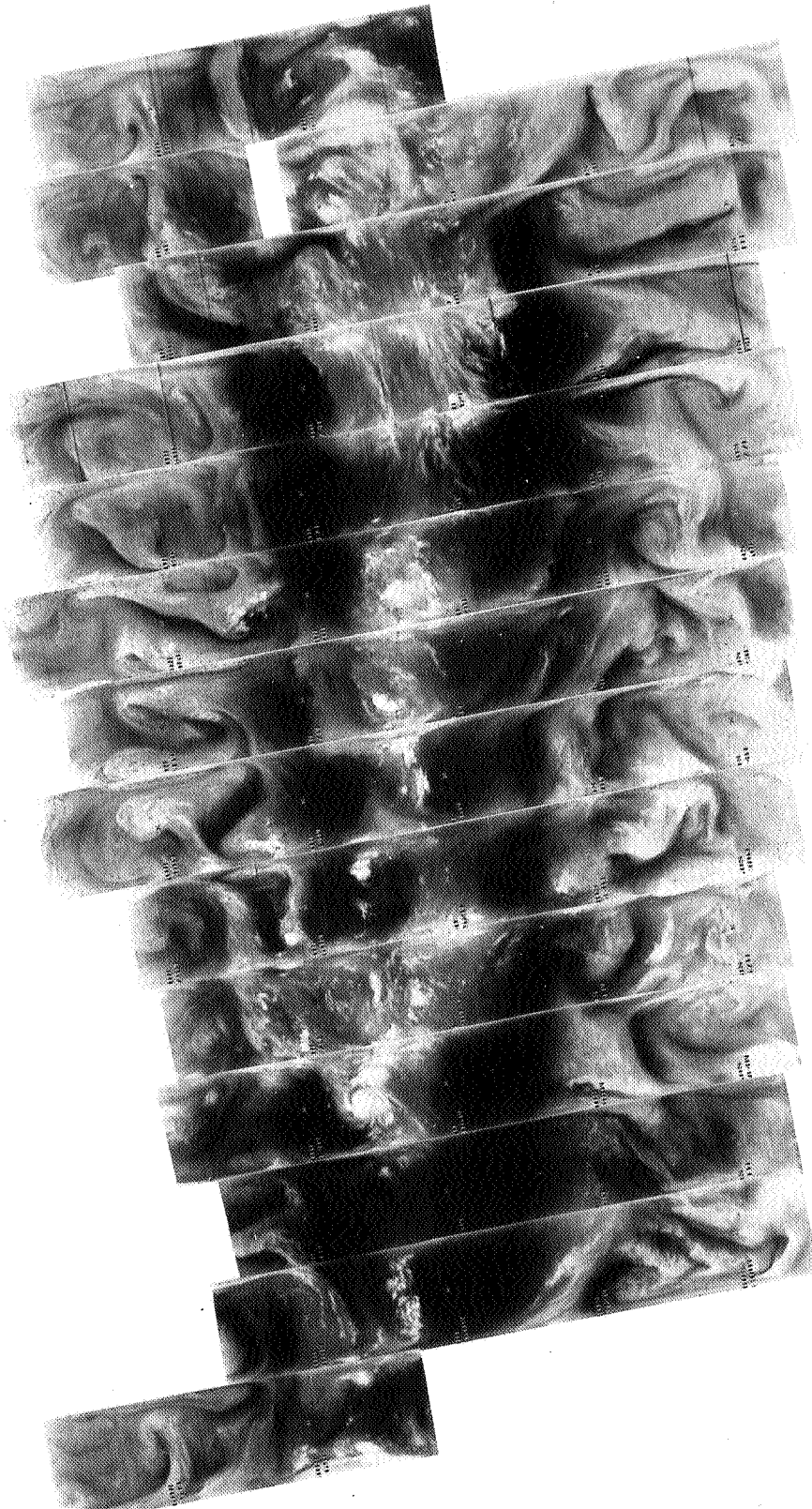
8385 8384 8383 8382 8381 8380 8379 8378 8377 8376 8375 8374 8373

27 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



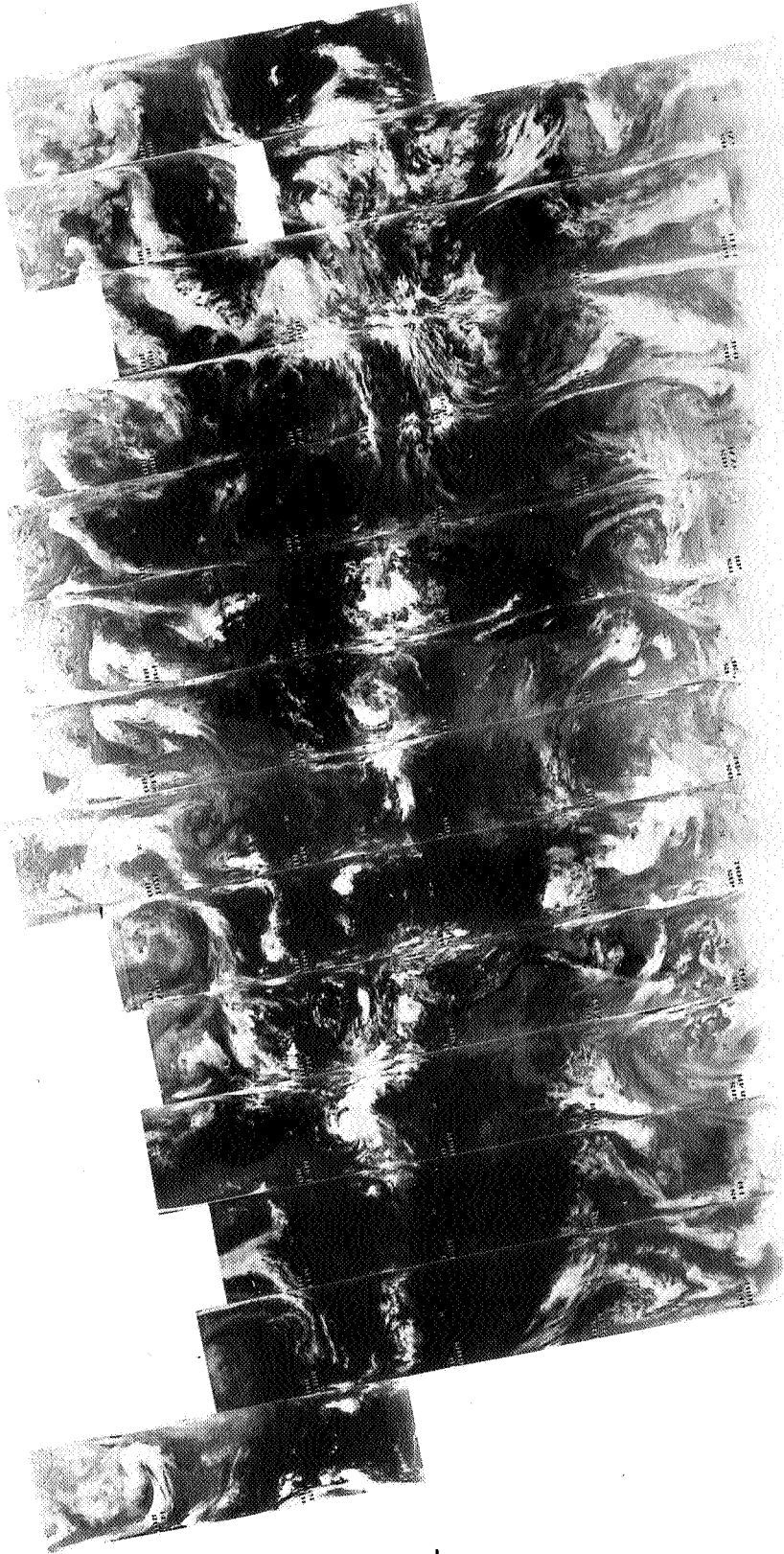
8399 8398 8397 8396 8395 8394 8393 8392 8391 8390 8389 8388 8387 8386

28 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8399 8398 8397 8396 8395 8394 8393 8392 8391 8390 8389 8388 8387 8386

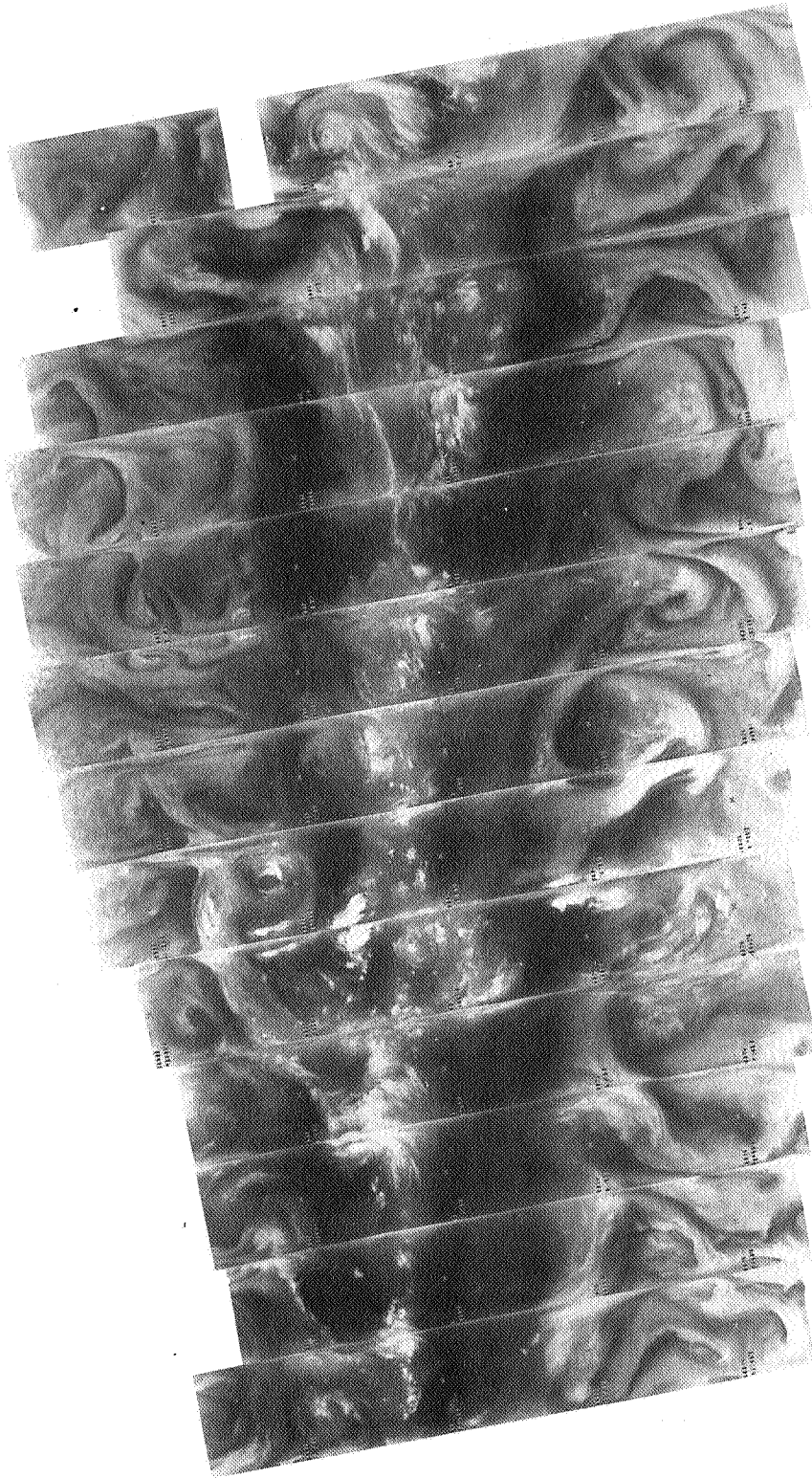
28 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-184



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8412 8411 8410 8409 8408 8407 8406 8405 8404 8403 8402 8401 8400

29 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

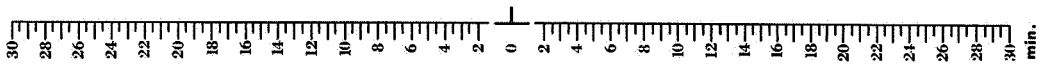


8412 8411 8410 8409 8408 8407 8406 8405 8404 8403 8402 8401 8400

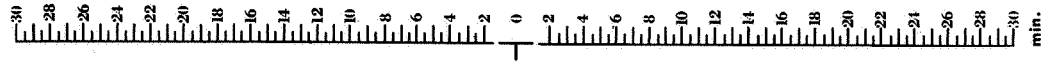
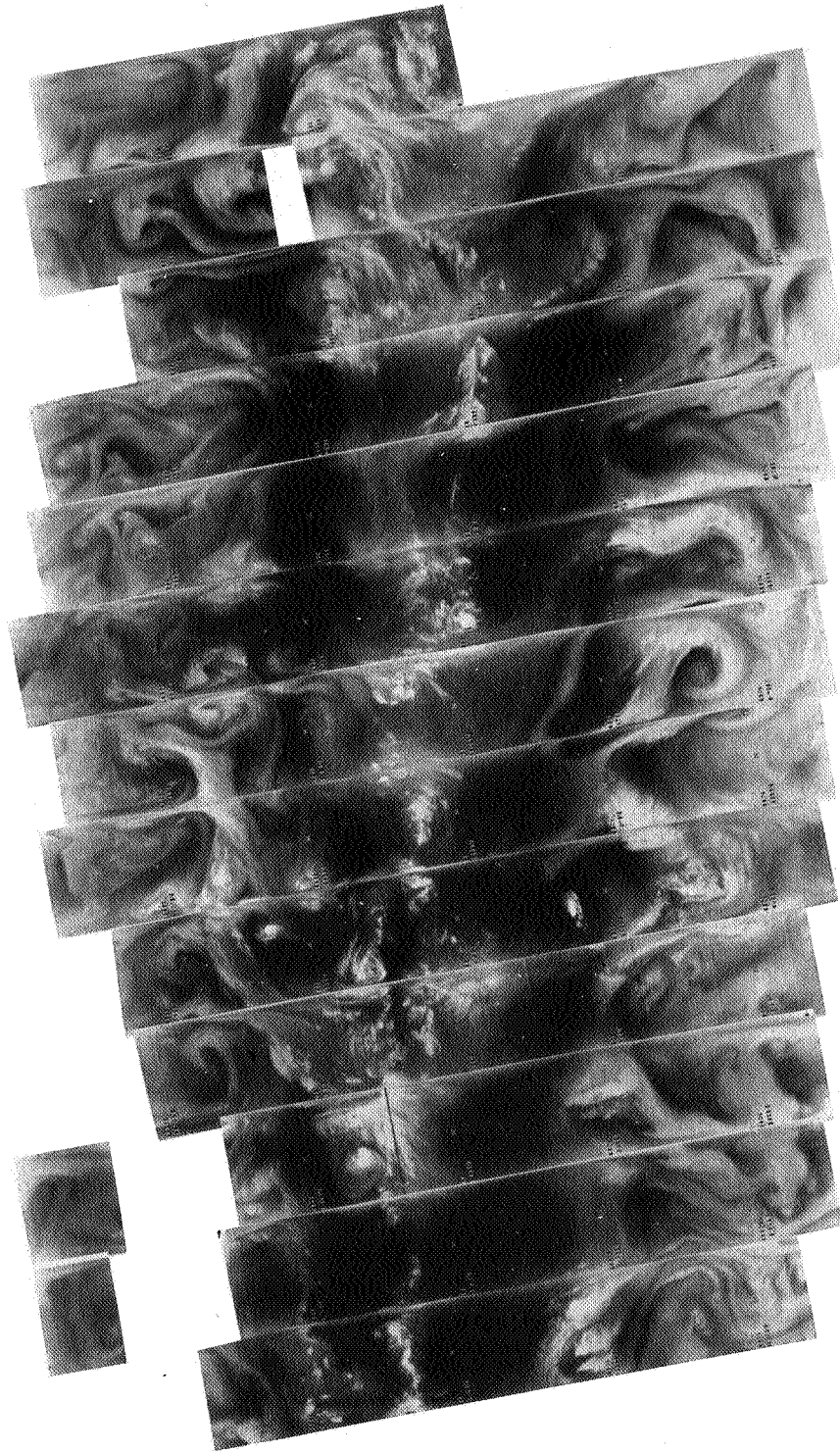
29 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

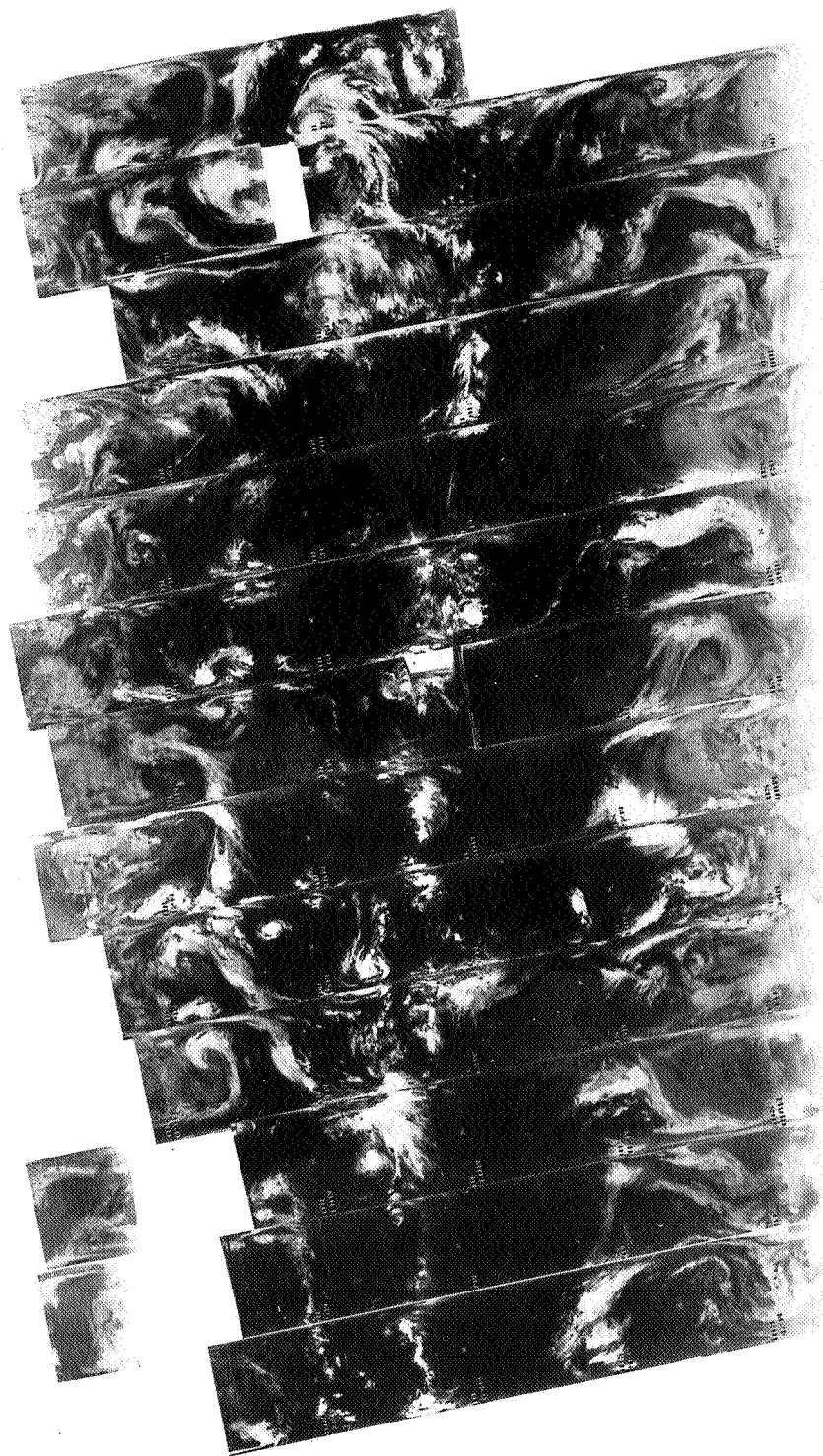


4-186



8425 8424 8423 8422 8421 8420 8419 8418 8417 8416 8415 8414 8413
30 AUGUST 1974
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8425 8424 8423 8422 8421 8420 8419 8418 8417 8416 8415 8414 8413

30 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



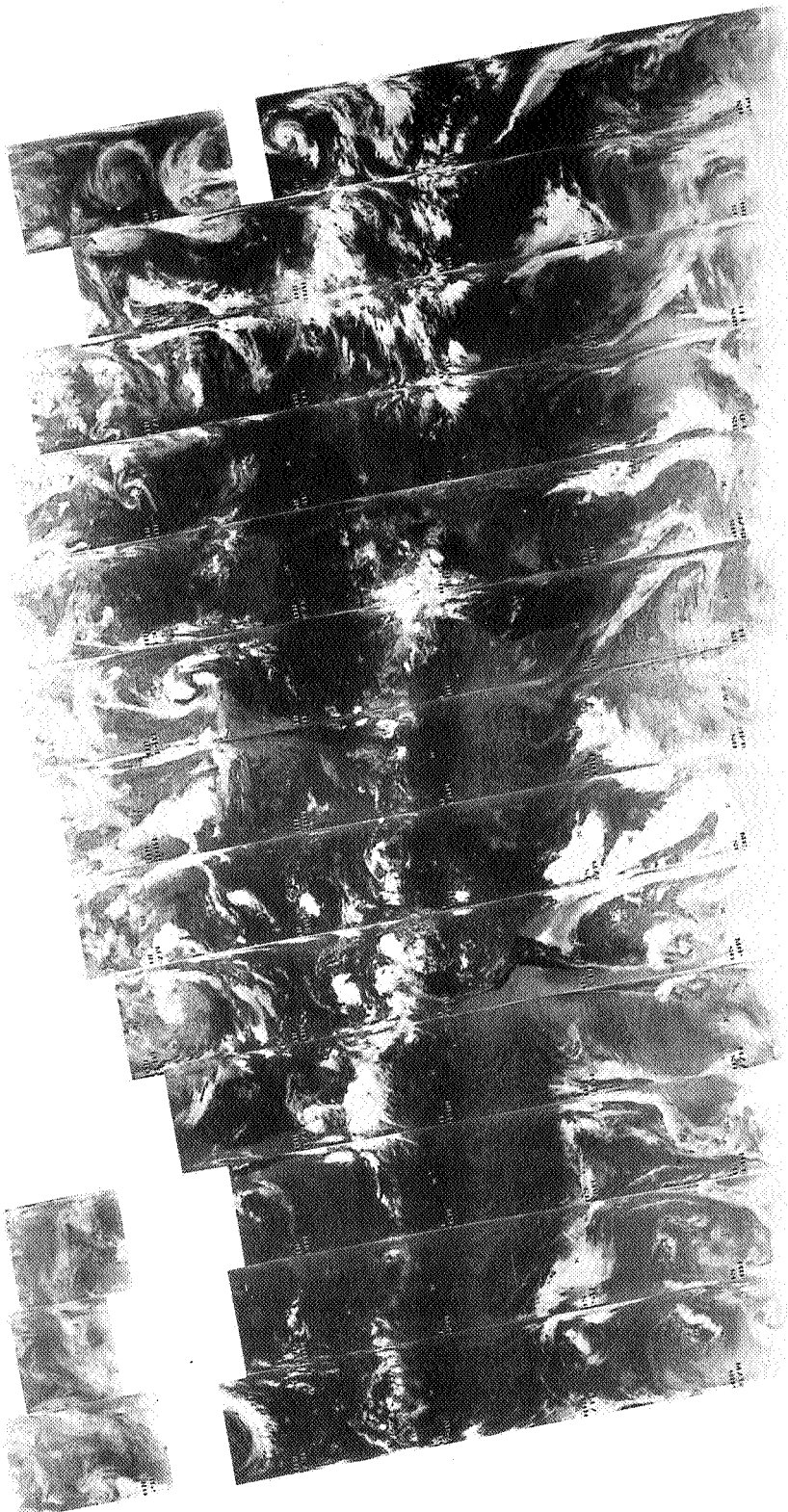
8439 8438 8437 8436 8435 8434 8433 8432 8431 8430 8429 8428 8427 8426

31 AUGUST 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8439 8438 8437 8436 8435 8434 8433 8432 8431 8430 8429 8428 8427 8426

31 AUGUST 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



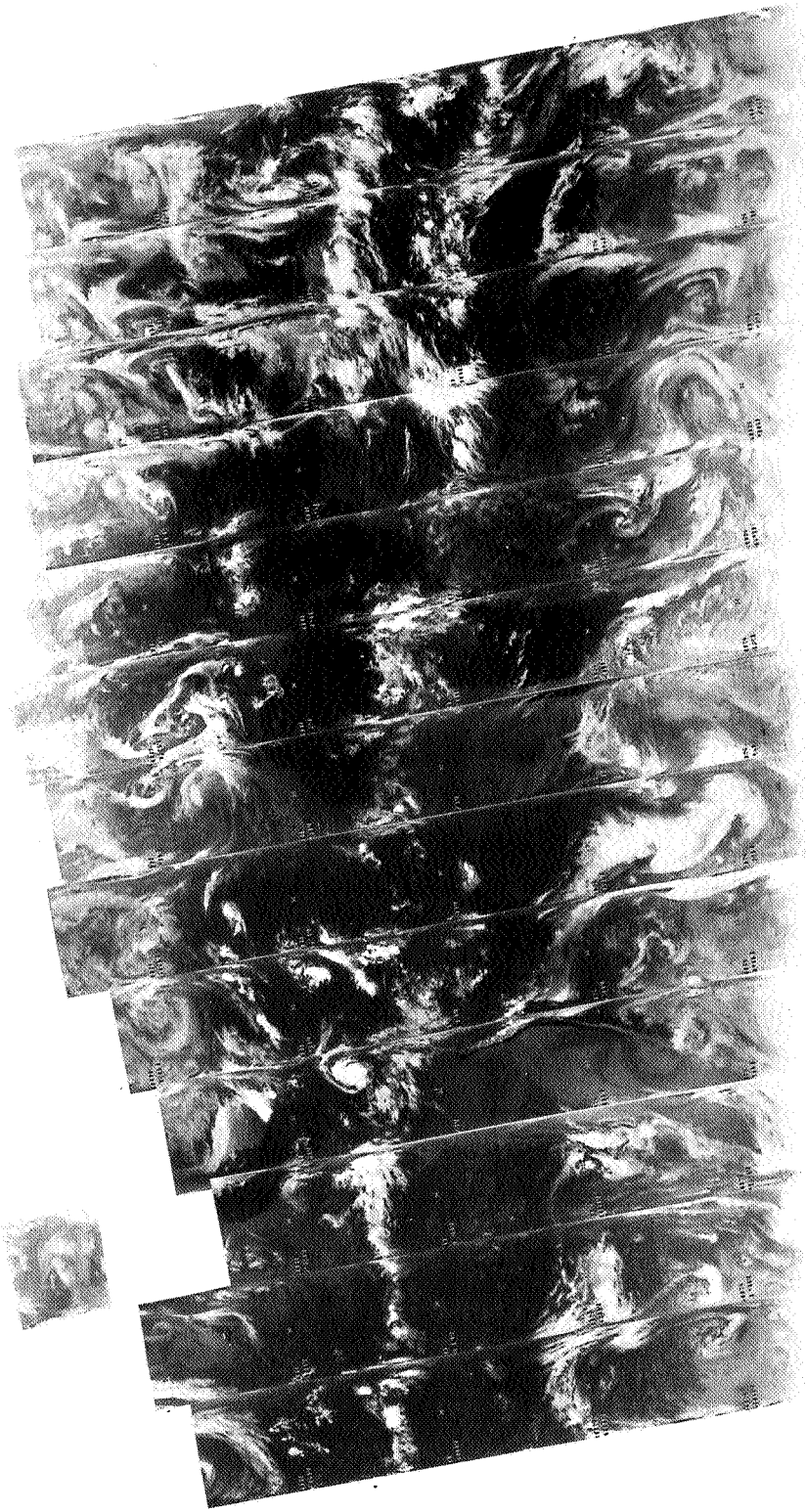
8452 8451 8450 8449 8448 8447 8446 8445 8444 8443 8442 8441 8440

1 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8452 8451 8450 8449 8448 8447 8446 8445 8444 8443 8442 8441 8440

1 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8466 8465 8464 8463 8462 8461 8460 8459 8458 8457 8456 8455 8454 8453

2 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8466 8465 8464 8463 8462 8461 8460 8459 8458 8457 8456 8455 8454 8453

2 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



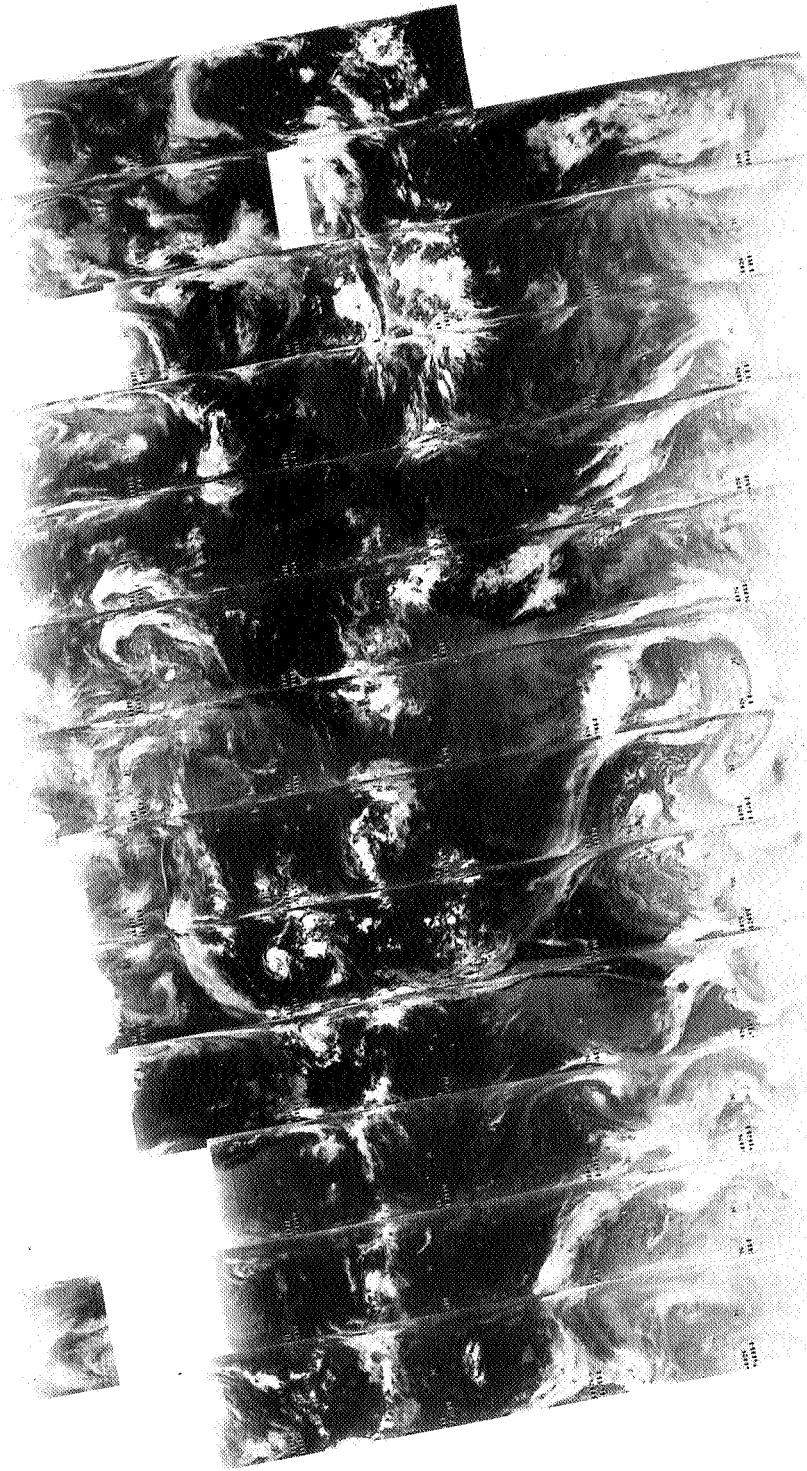
8479 8478 8477 8476 8475 8474 8473 8472 8471 8470 8469 8468 8467

3 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



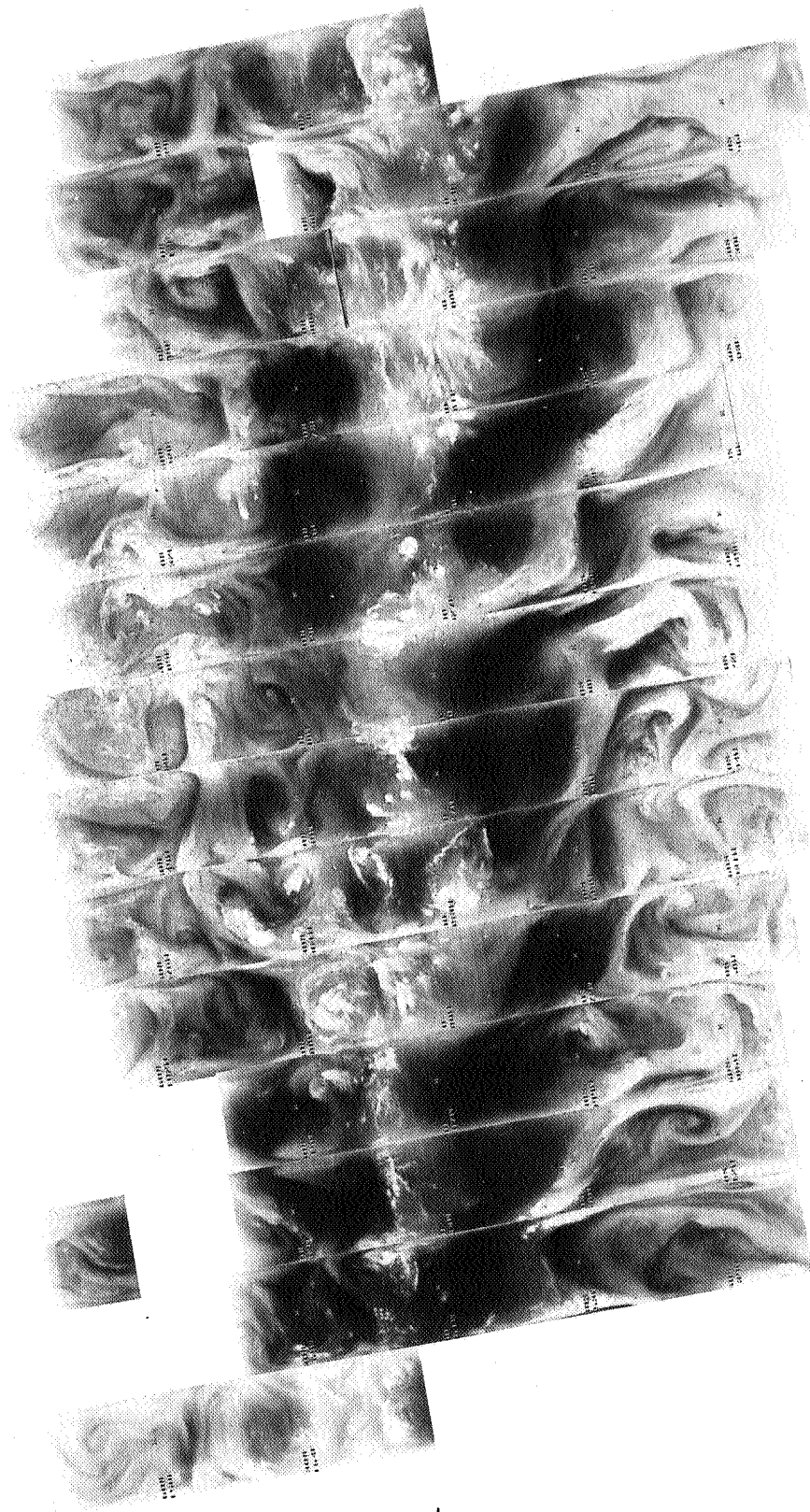
8479 8478 8477 8476 8475 8474 8473 8472 8471 8470 8469 8468 8467

3 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



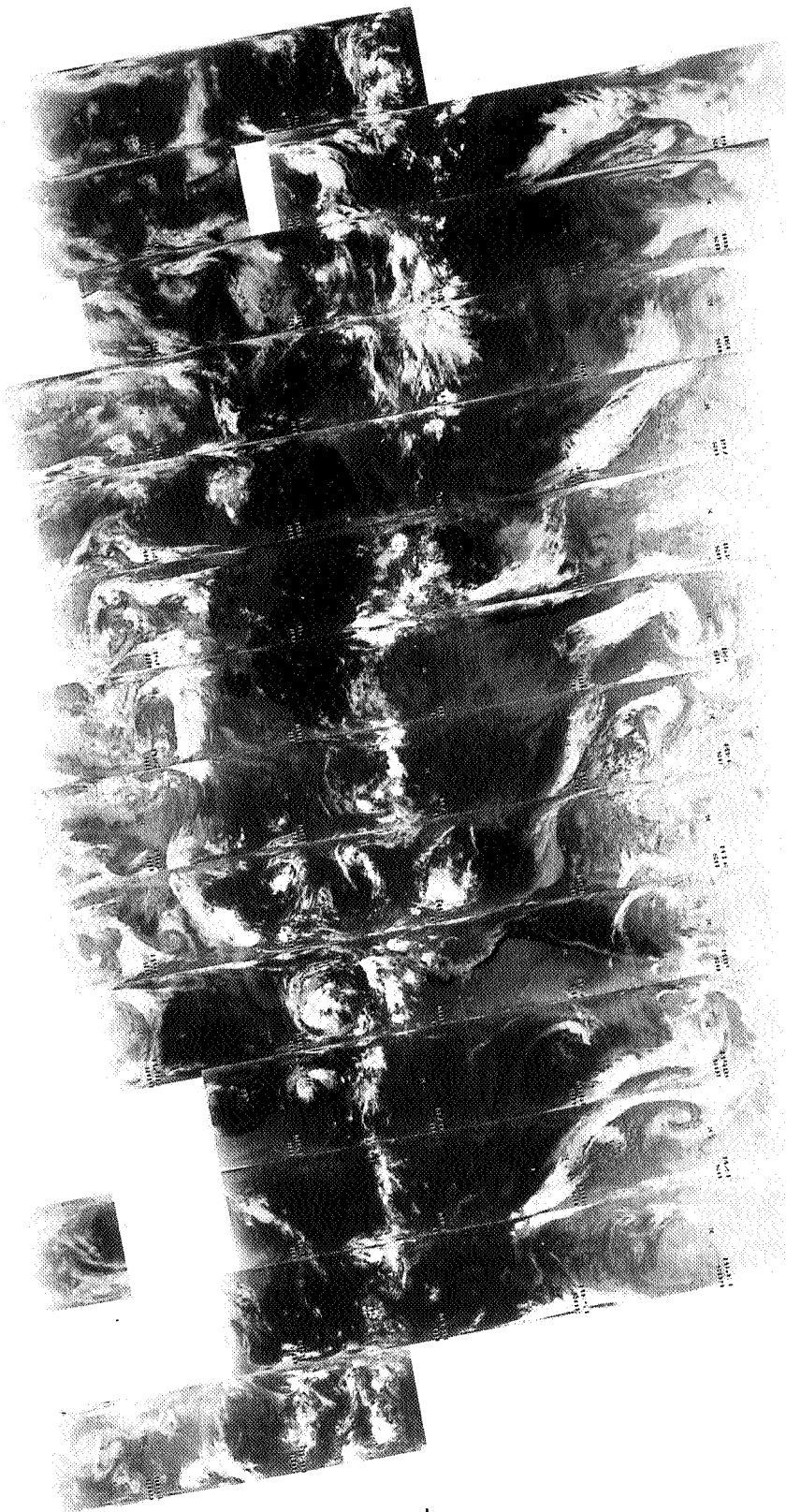
8493 8492 8491 8490 8489 8488 8487 8486 8485 8484 8483 8482 8481 8480

4 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



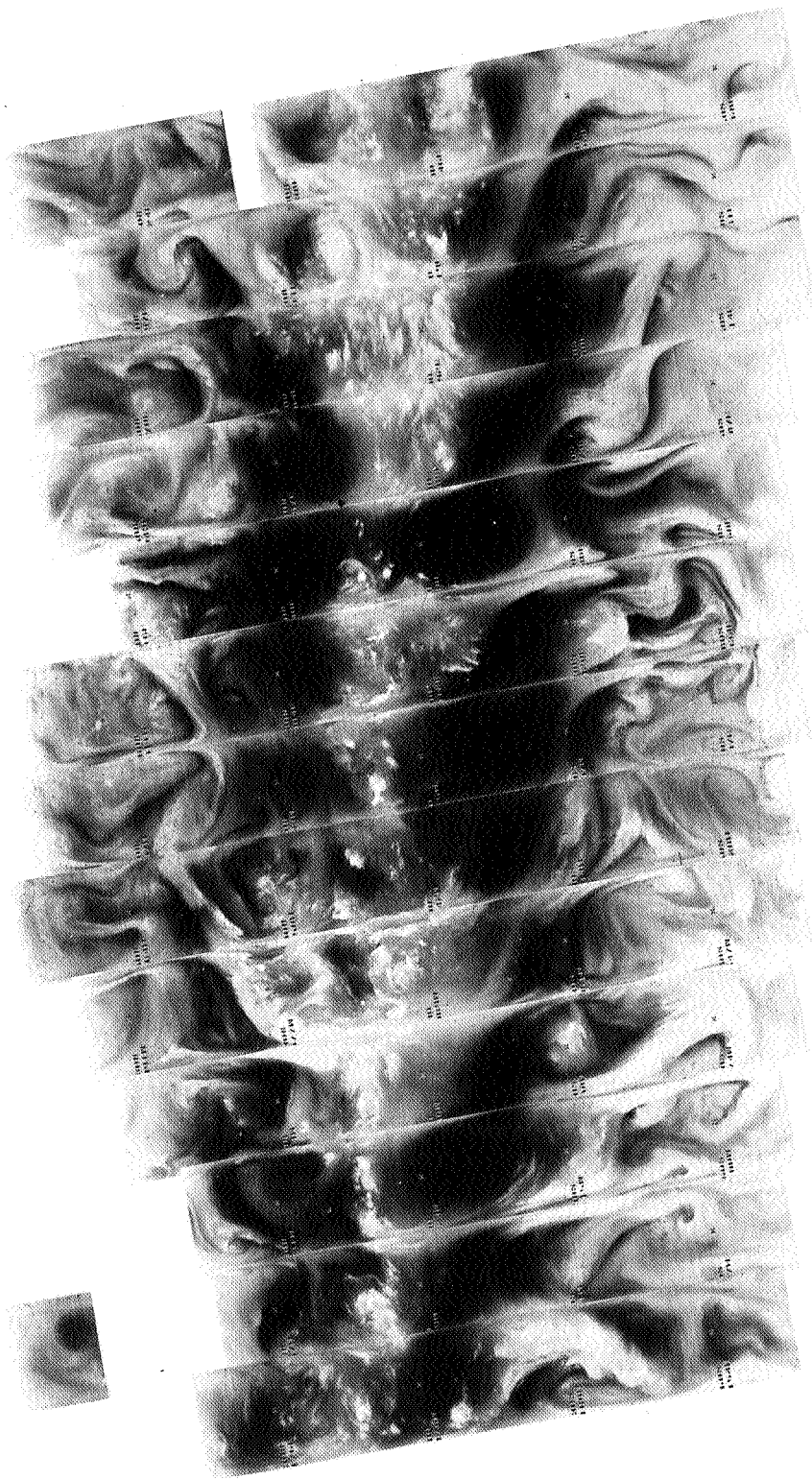
8493 8492 8491 8490 8489 8488 8487 8486 8485 8484 8483 8482 8481 8480

4 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

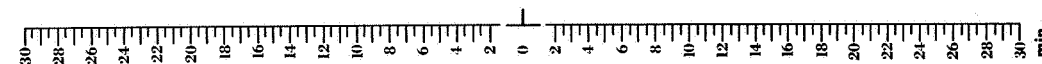


8506 8505 8504 8503 8502 8501 8500 8499 8498 8497 8496 8495 8494

5 SEPTEMBER 1974

6.7 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



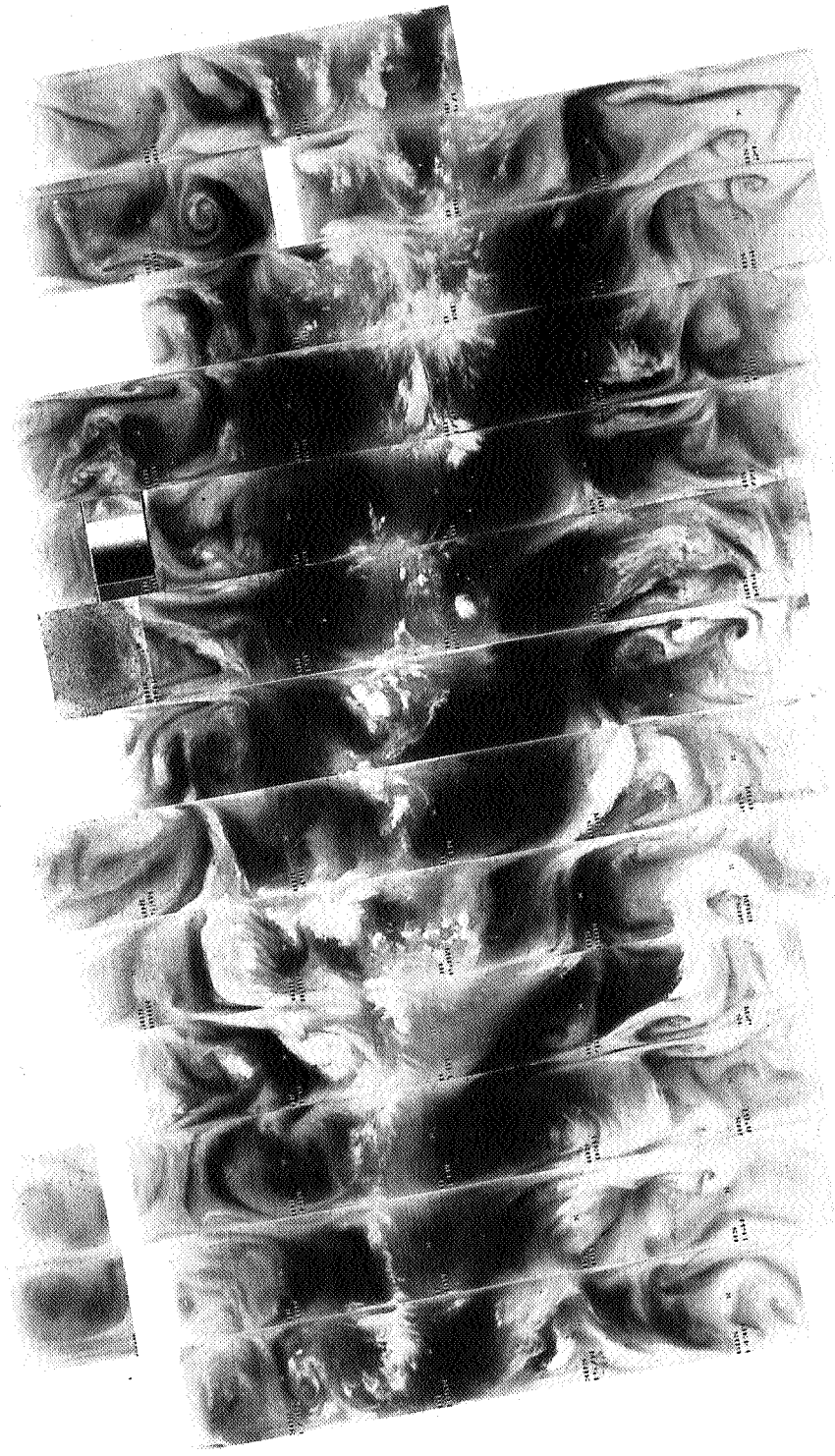
8506	8505	8504	8503	8502	8501	8500	8499	8498	8497	8496	8495	8494
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5 SEPTEMBER 1974

11.5 μm

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-200

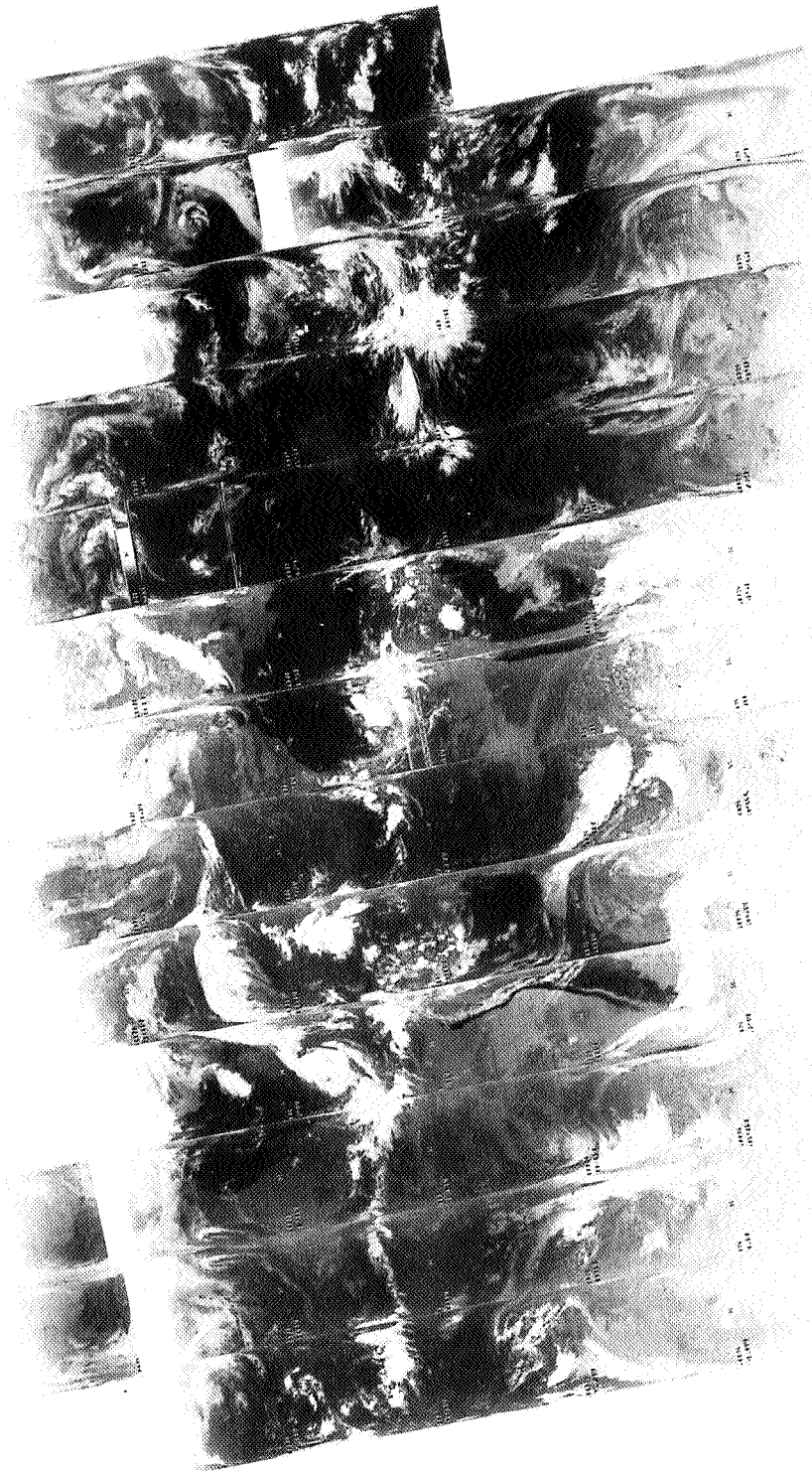


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8519 8518 8517 8516 8515 8514 8513 8512 8511 8510 8509 8508 8507
6 SEPTEMBER 1974
6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-201



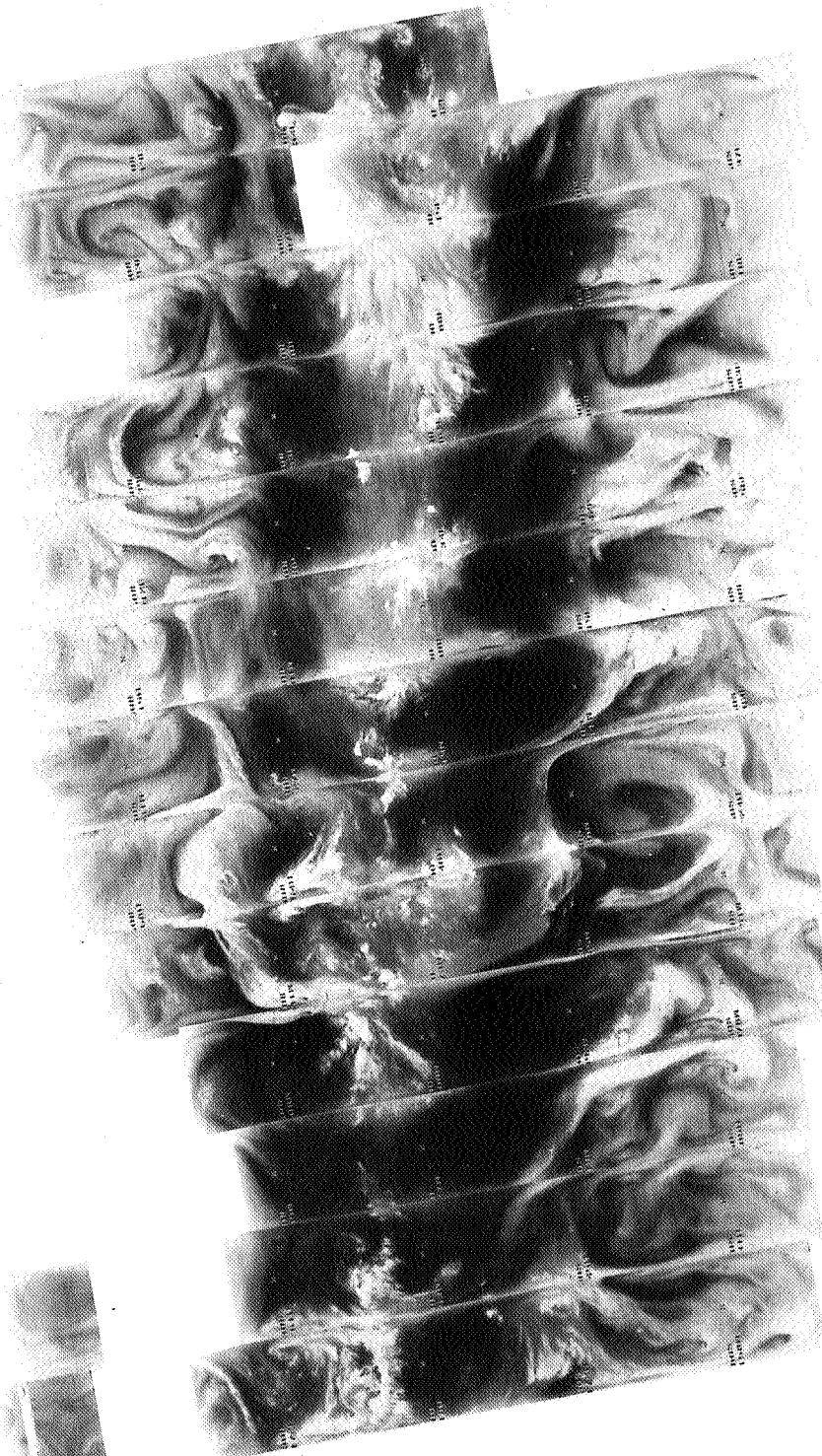
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8519 8518 8517 8516 8515 8514 8513 8512 8511 8510 8509 8508 8507

6 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



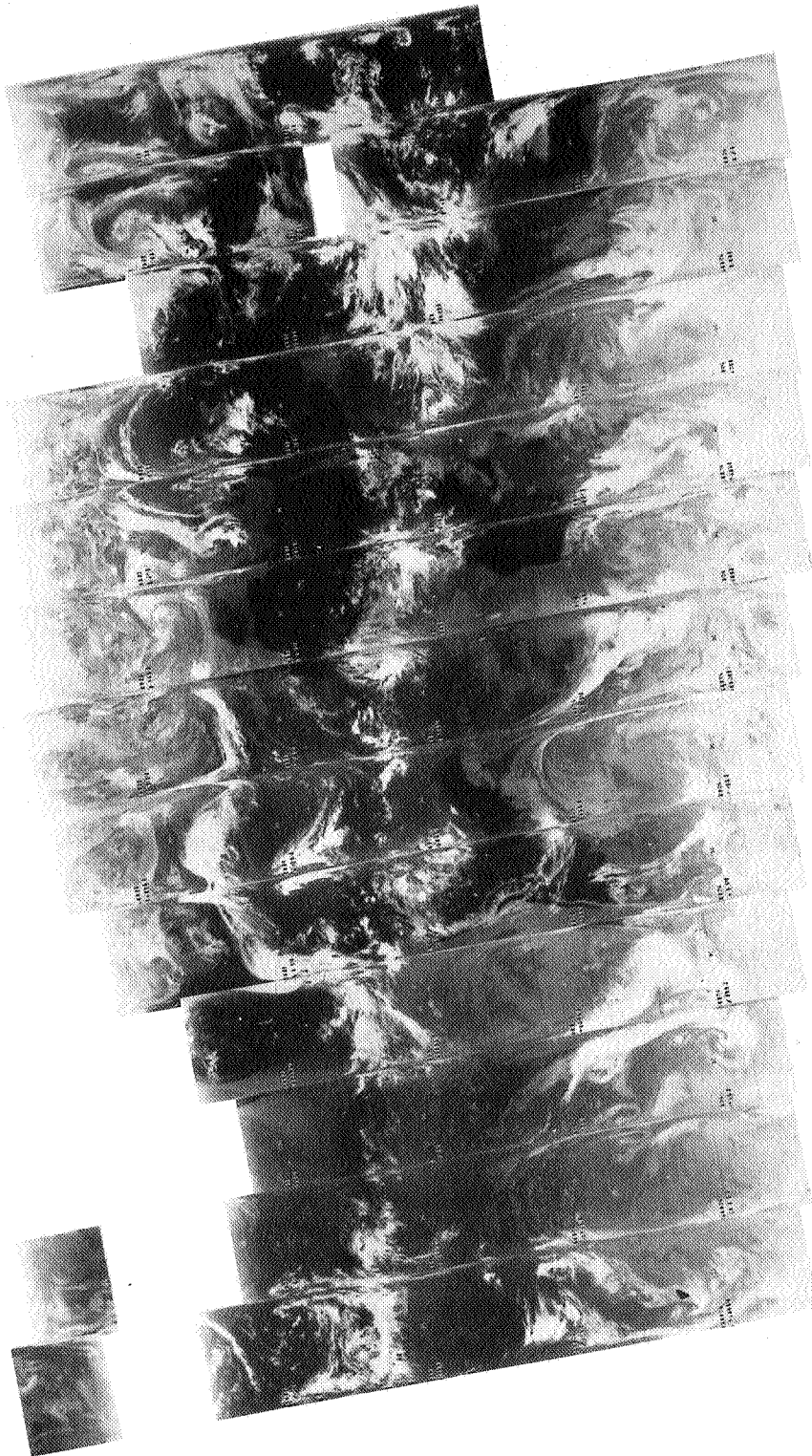
8533 8532 8531 8530 8529 8528 8527 8526 8525 8524 8523 8522 8521 8520

7 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



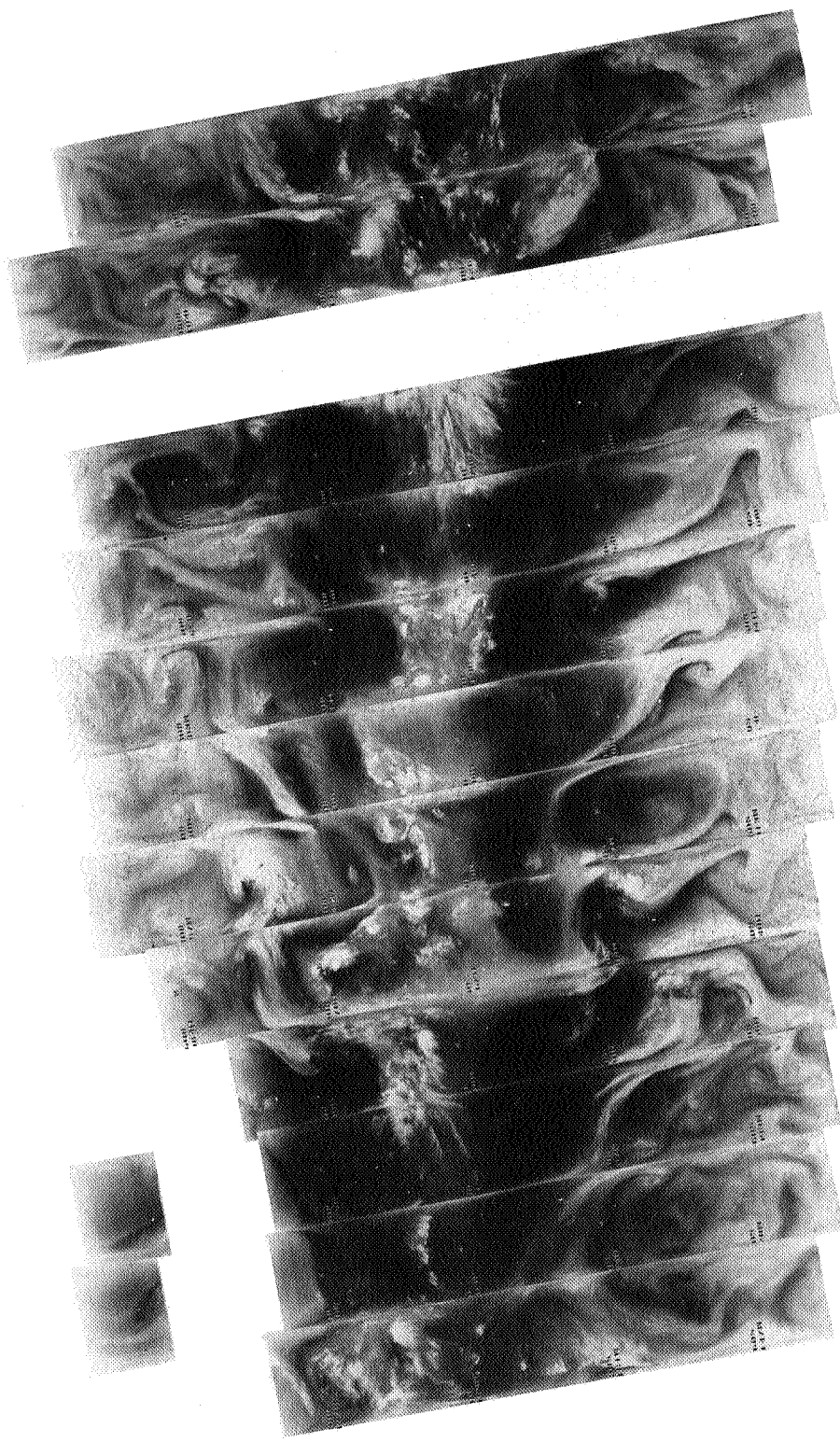
8533 8532 8531 8530 8529 8528 8527 8526 8525 8524 8523 8522 8521 8520

7 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



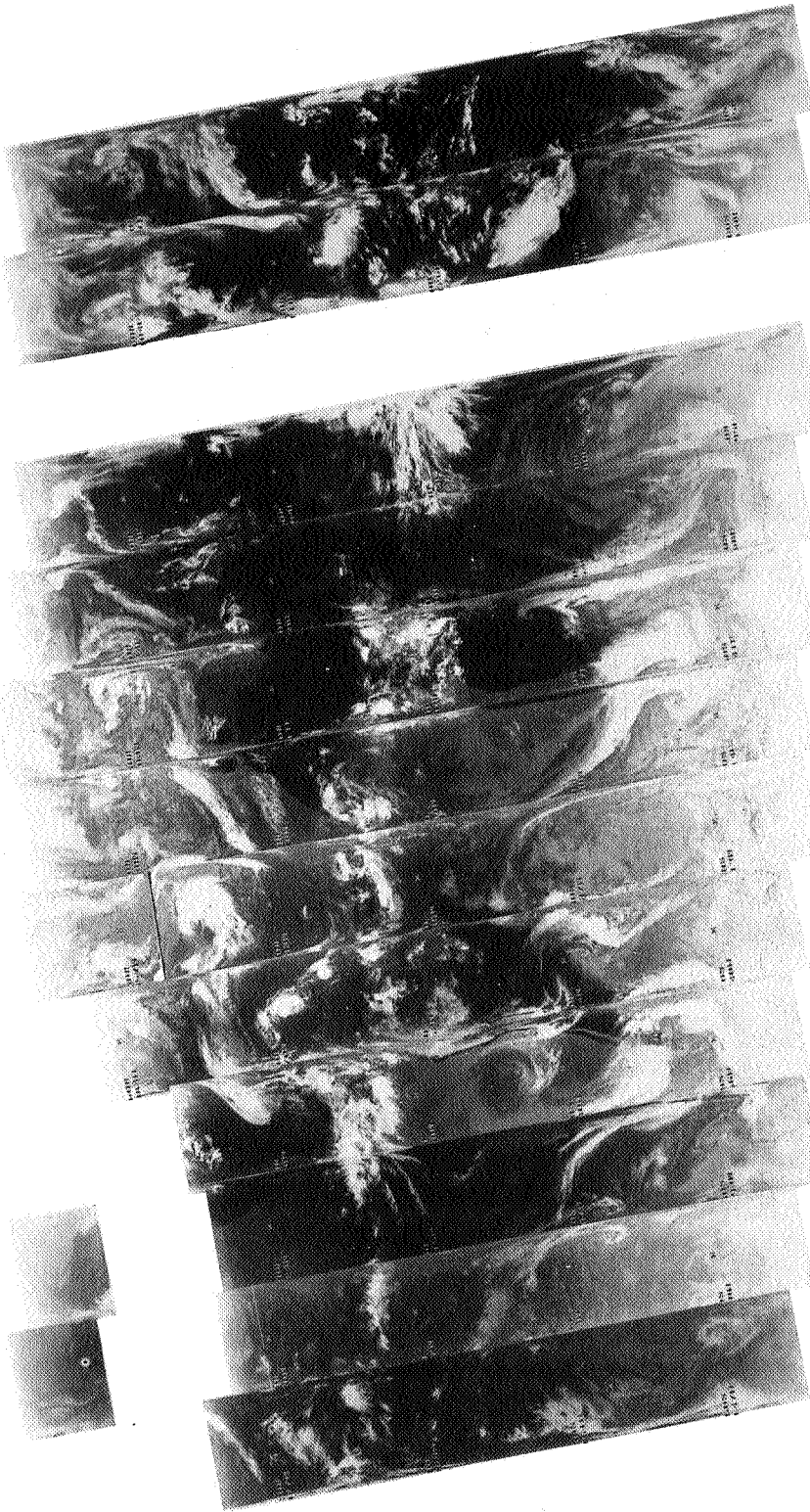
8546 8545 8544 8543 8542 8541 8540 8539 8538 8537 8536 8535 8534

8 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



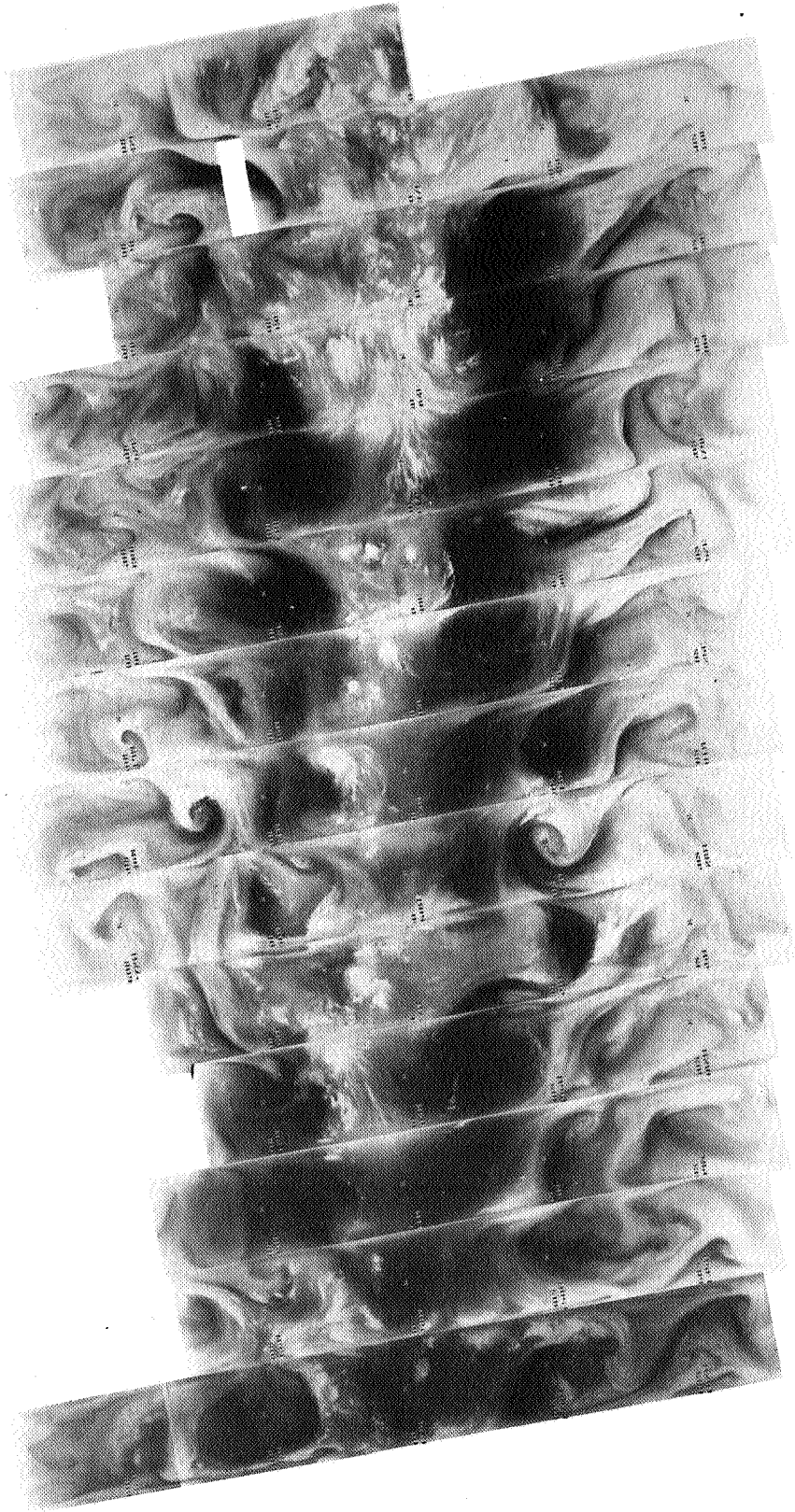
8546 8545 8544 8543 8542 8541 8540 8539 8538 8537 8536 8535 8534

8 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



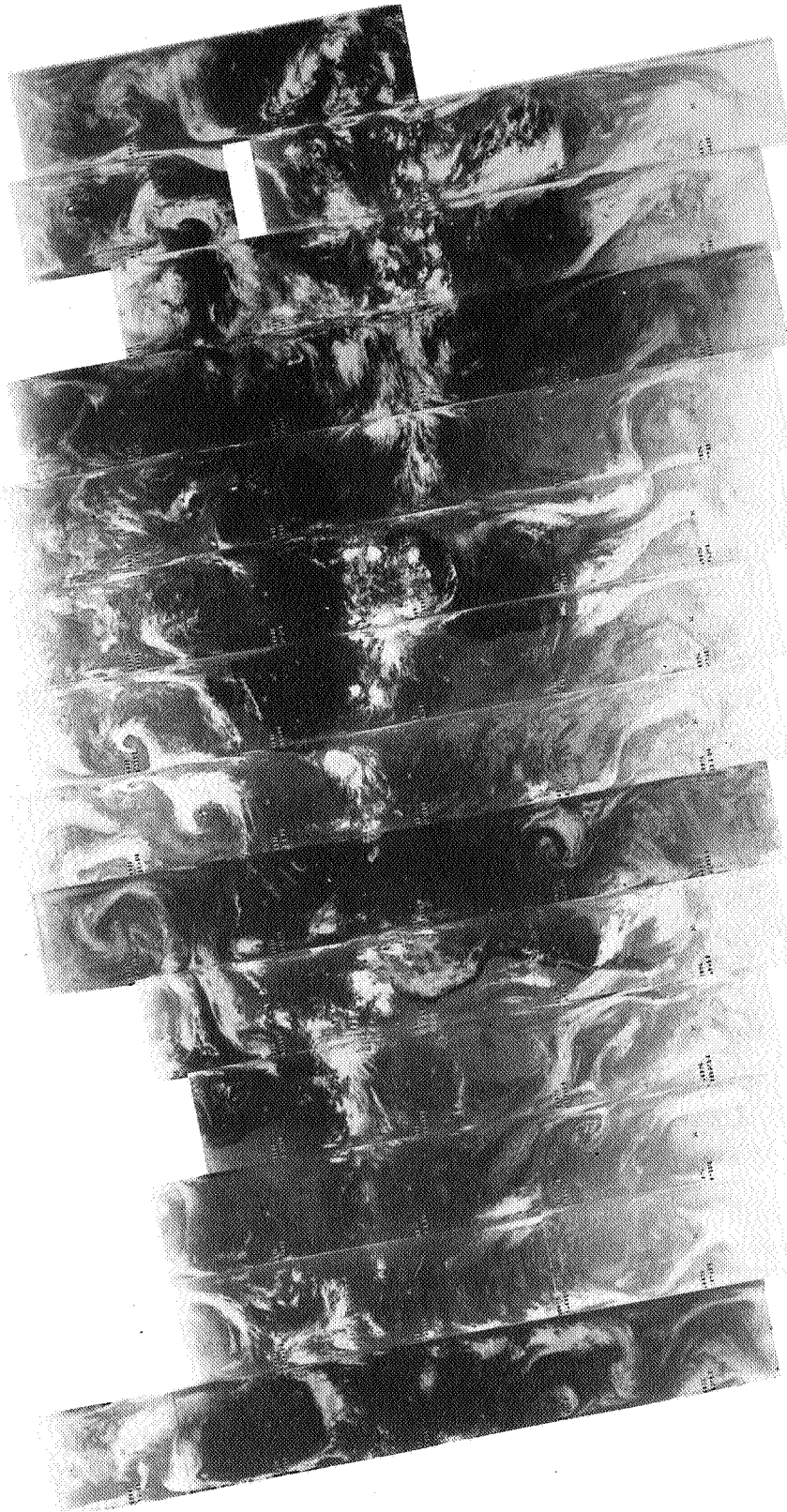
8560 8559 8558 8557 8556 8555 8554 8553 8552 8551 8550 8549 8548 8547

9 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



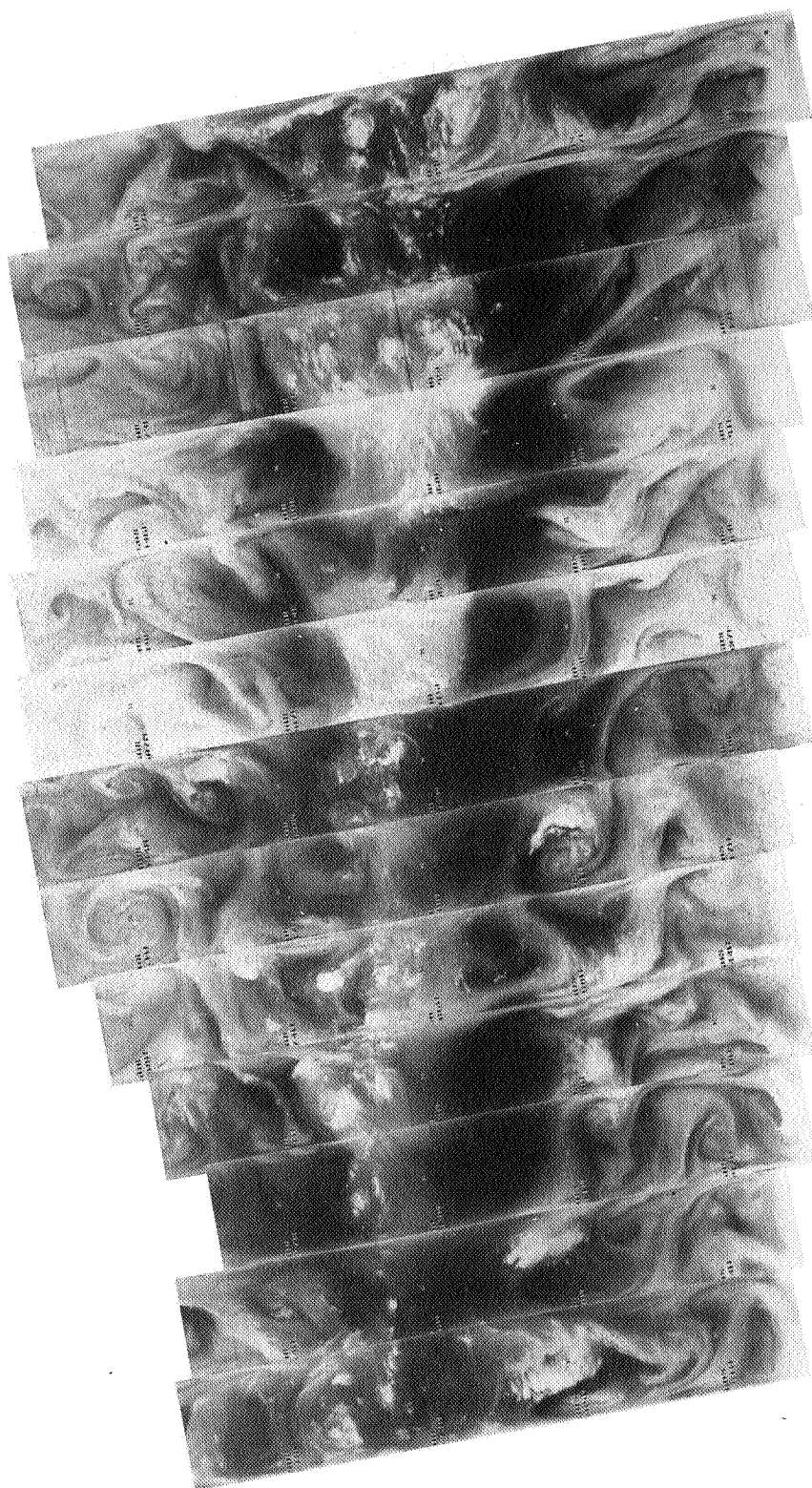
8560 8559 8558 8557 8556 8555 8554 8553 8552 8551 8550 8549 8548 8547

9 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



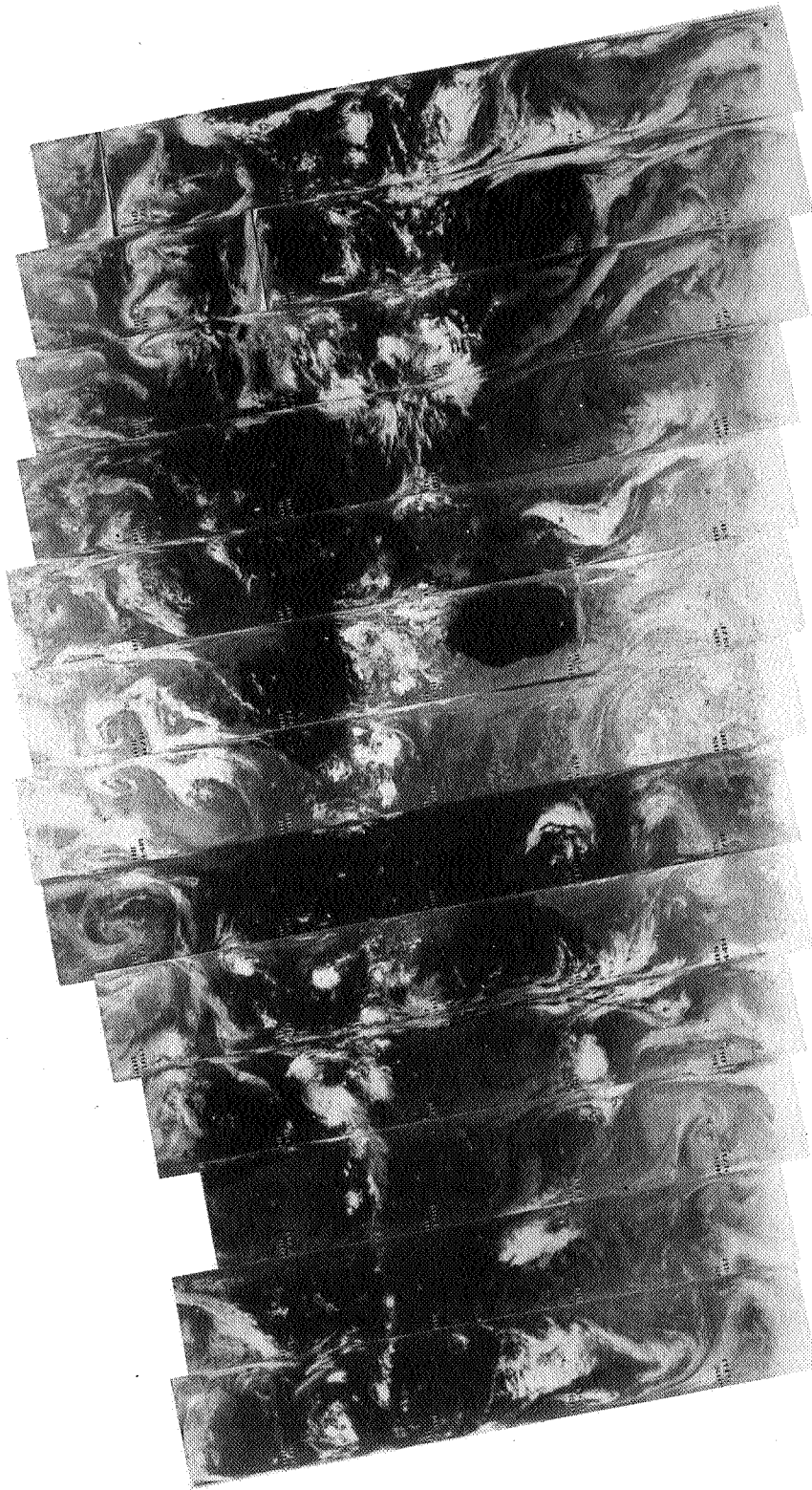
8573 8572 8571 8570 8569 8568 8567 8566 8565 8564 8563 8562 8561

10 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



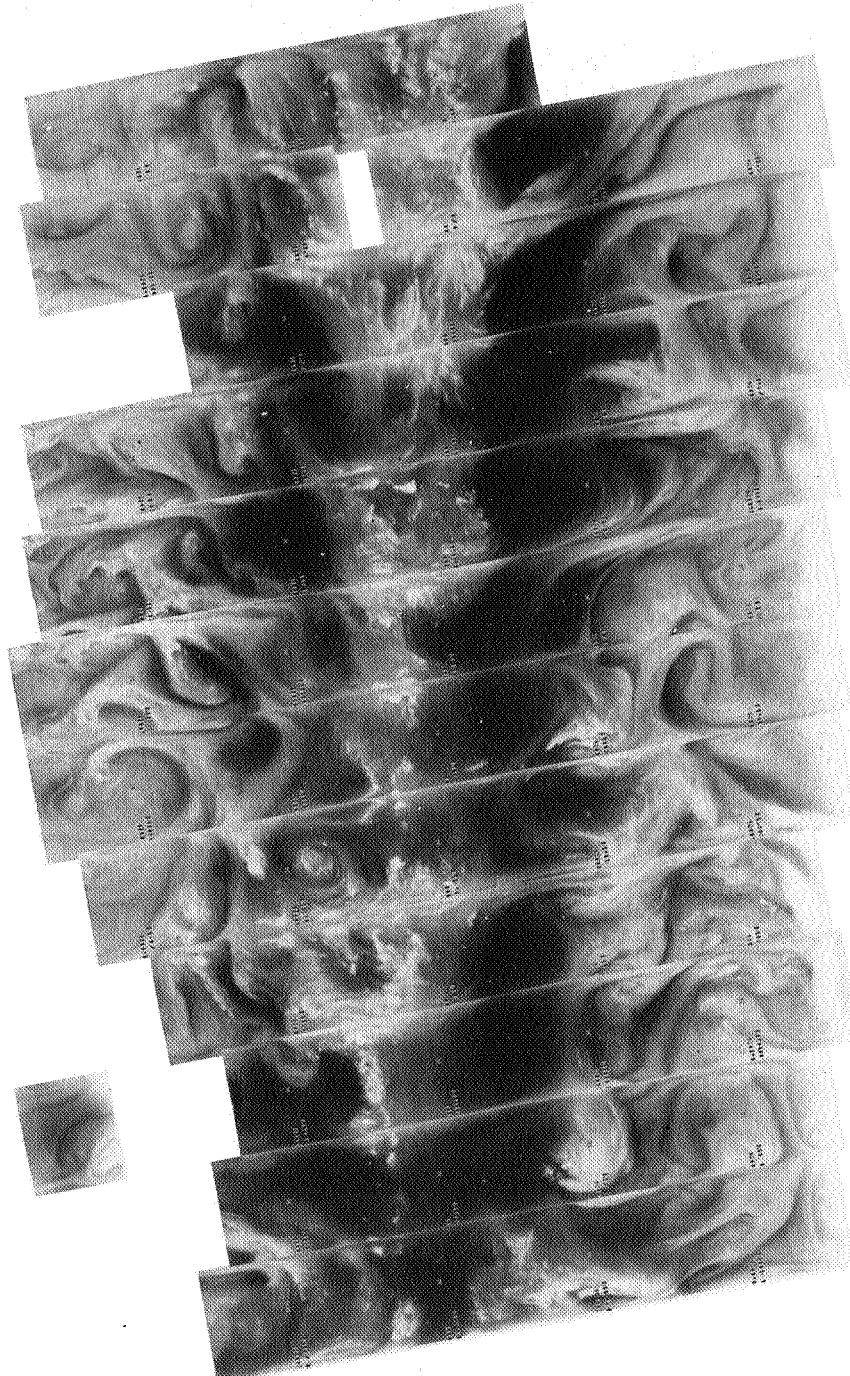
8573 8572 8571 8570 8569 8568 8567 8566 8565 8564 8563 8562 8561

10 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



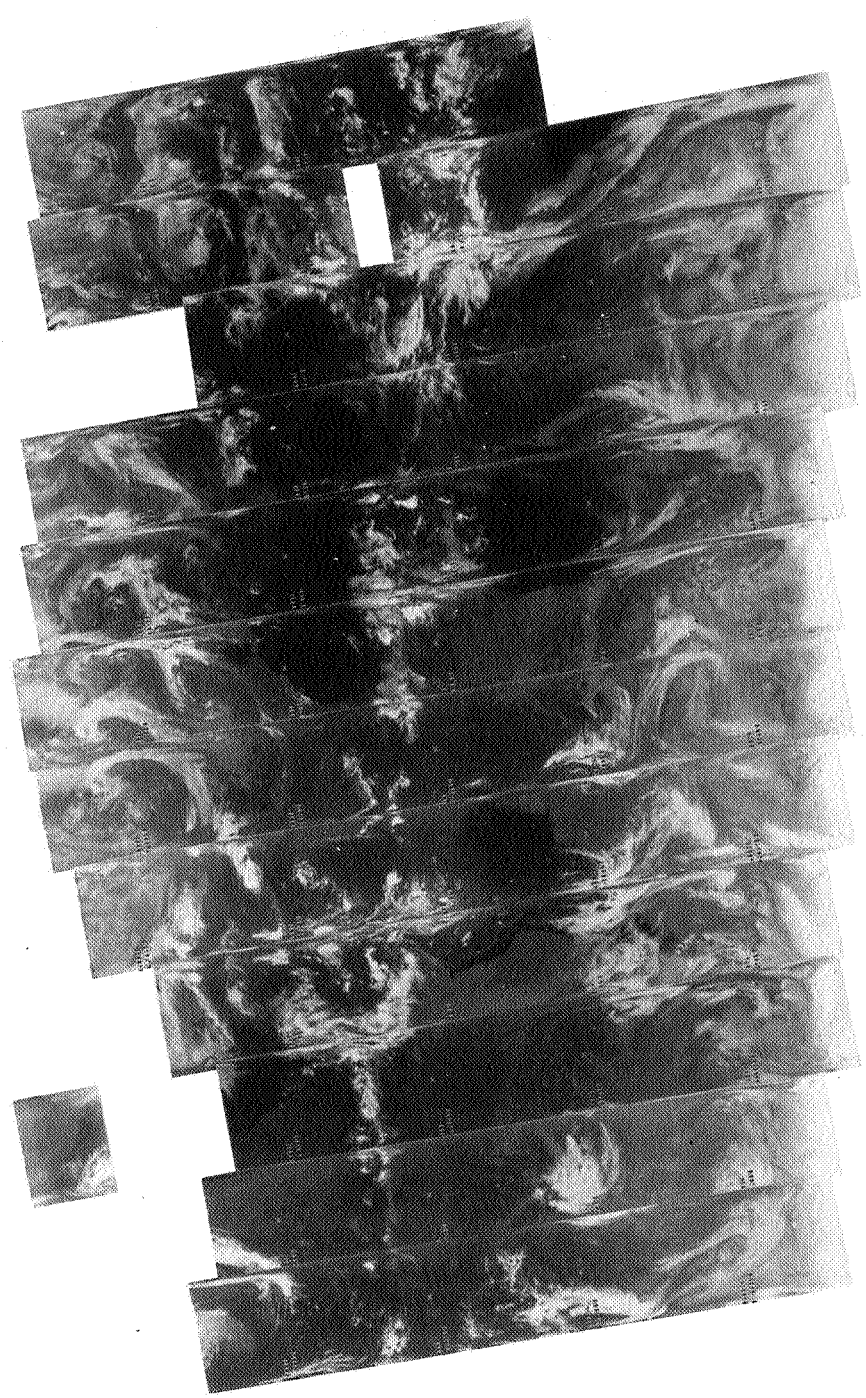
8586 8585 8584 8583 8582 8581 8580 8579 8578 8577 8576 8575 8574

11 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

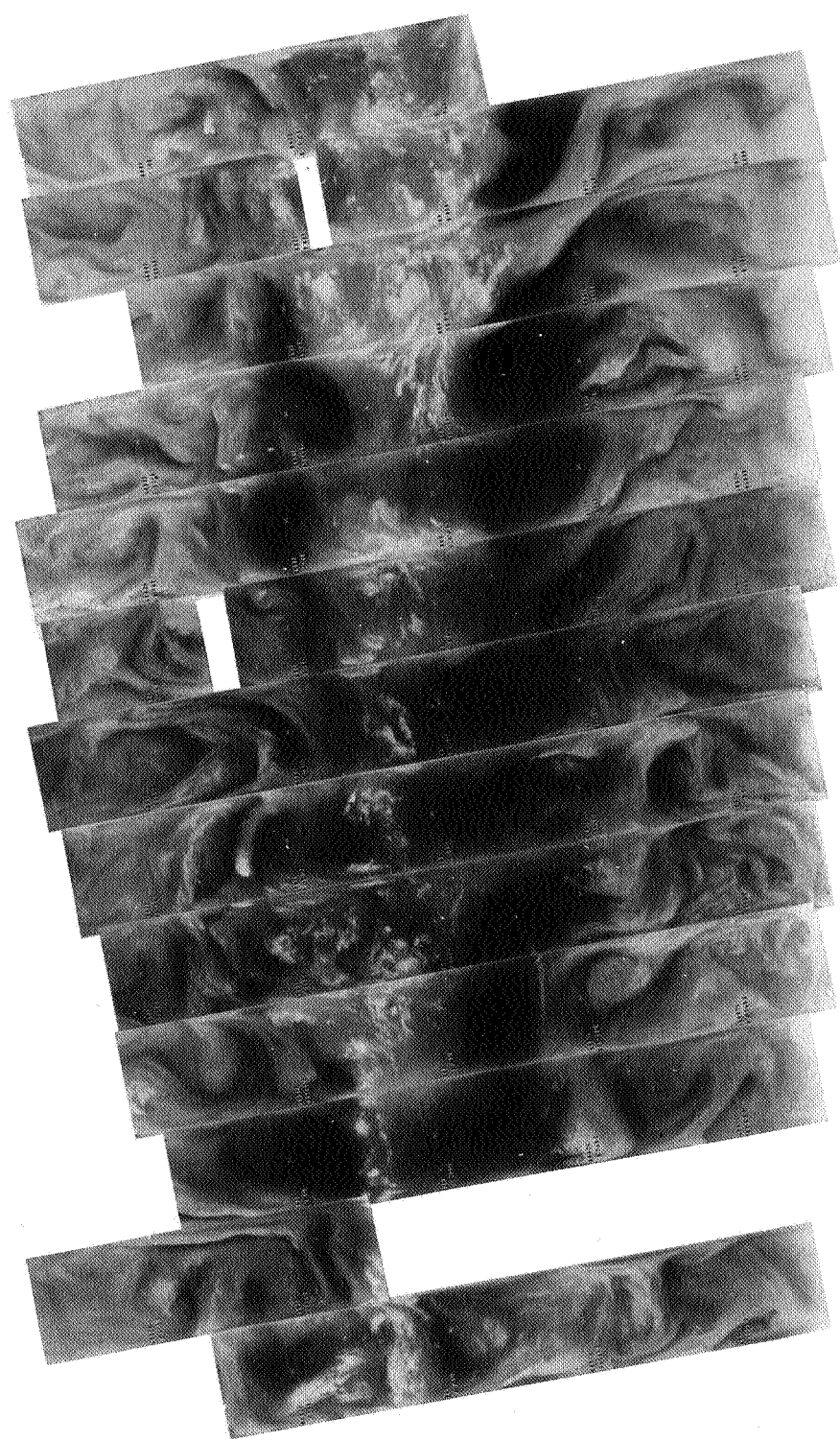
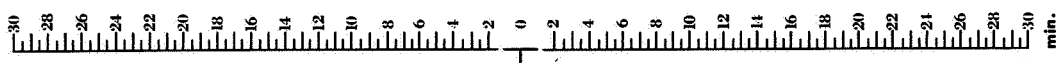


8586 8585 8584 8583 8582 8581 8580 8579 8578 8577 8576 8575 8574

11 SEPTEMBER 1974

11.5 μ m

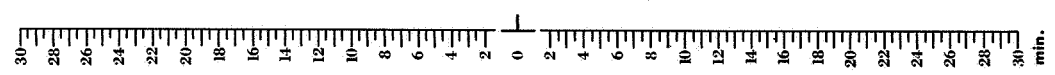
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



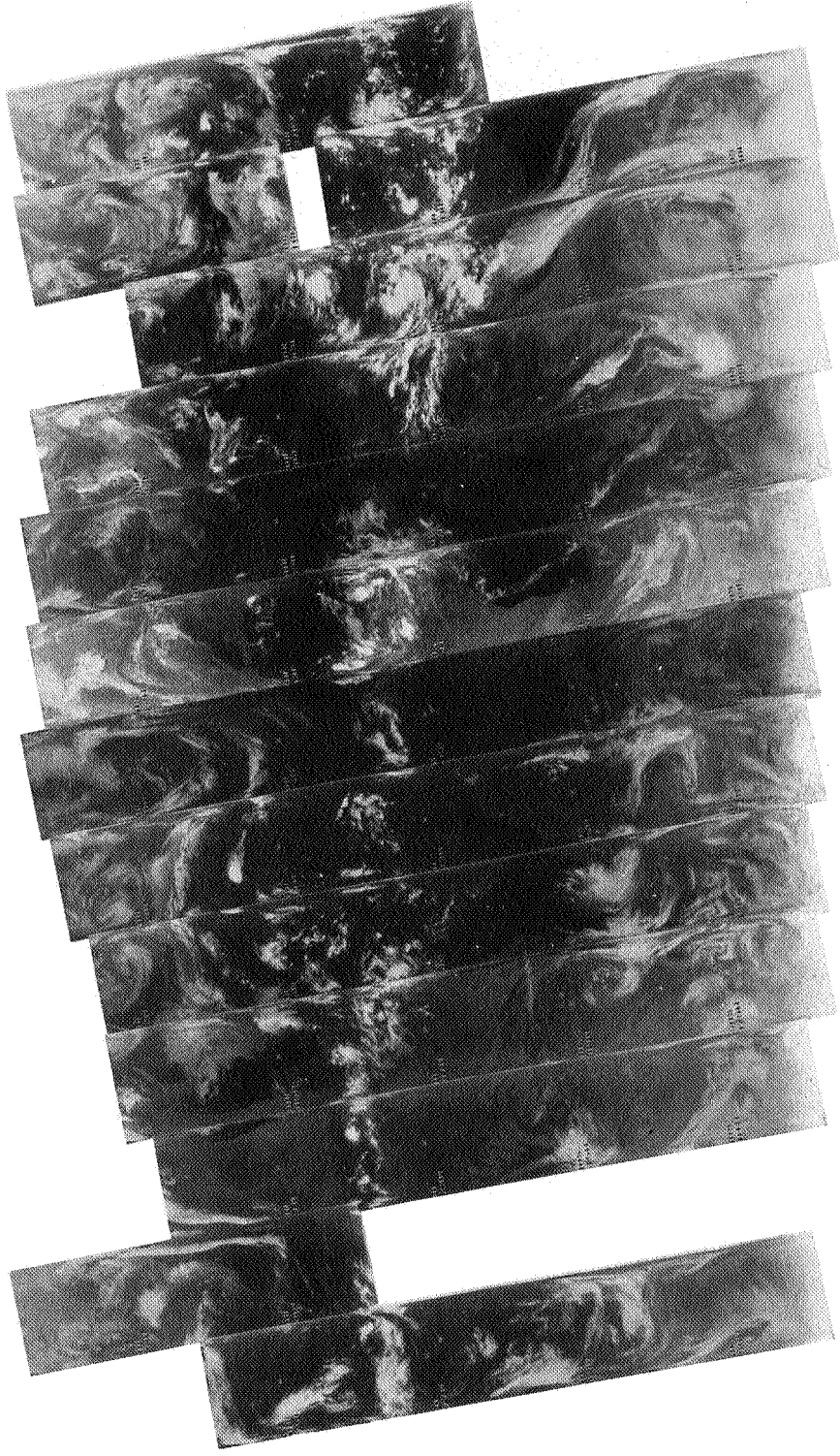
8600 8599 8598 8597 8596 8595 8594 8593 8592 8591 8590 8589 8588 8587

12 SEPTEMBER 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



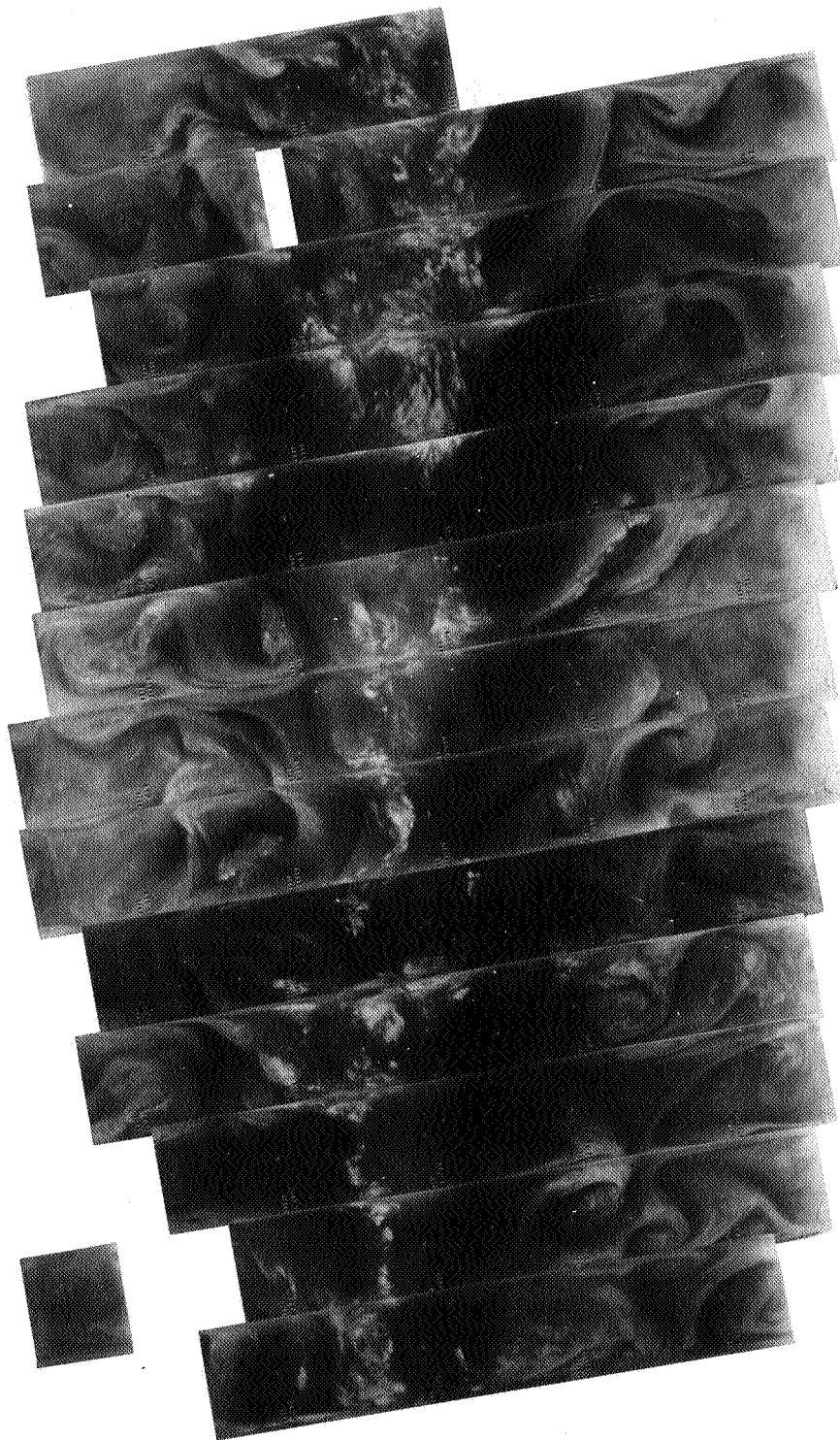
8600 8599 8598 8597 8596 8595 8594 8593 8592 8591 8590 8589 8588 8587

12 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



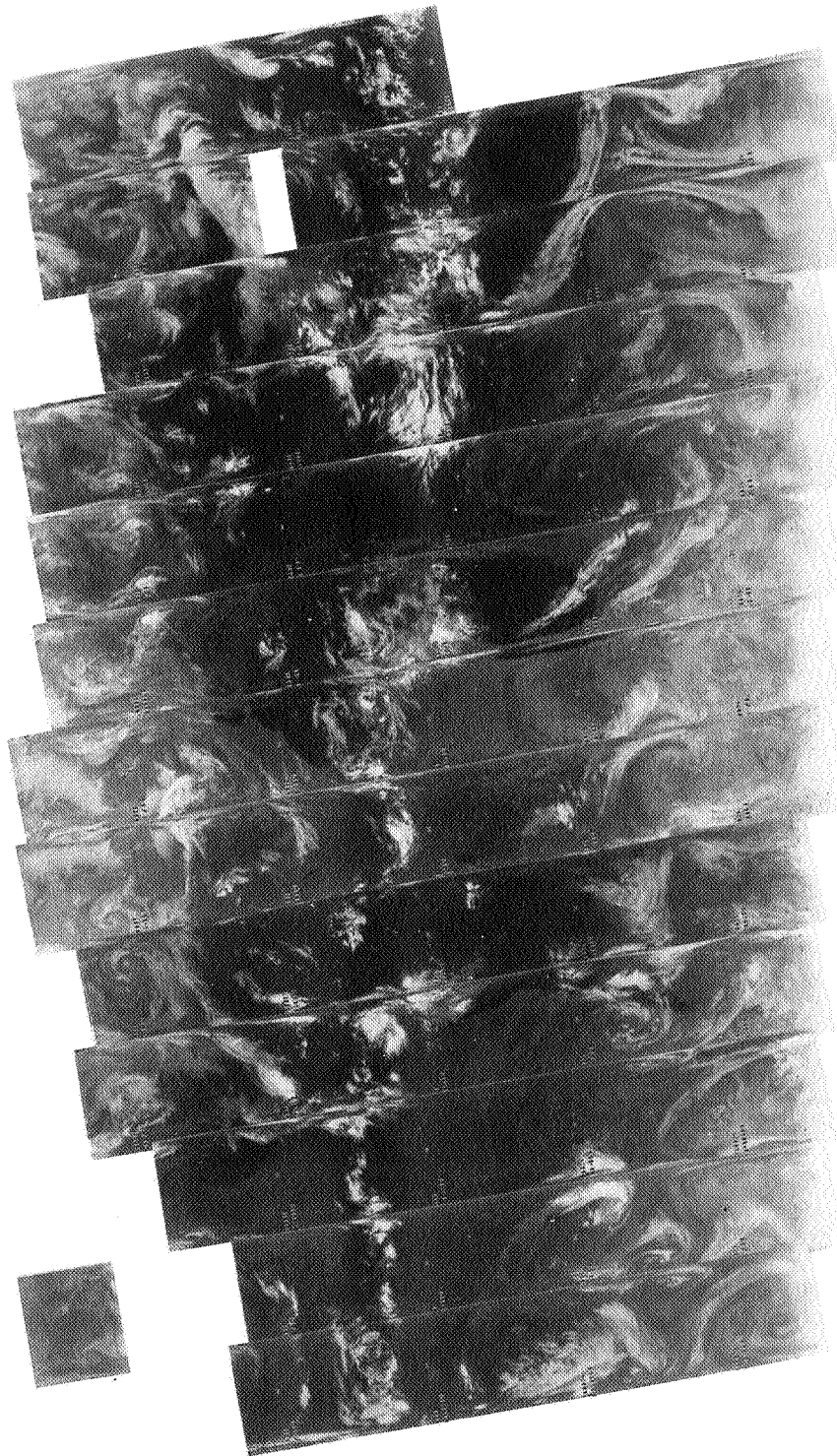
8613 8612 8611 8610 8609 8608 8607 8606 8605 8604 8603 8602 8601

13 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



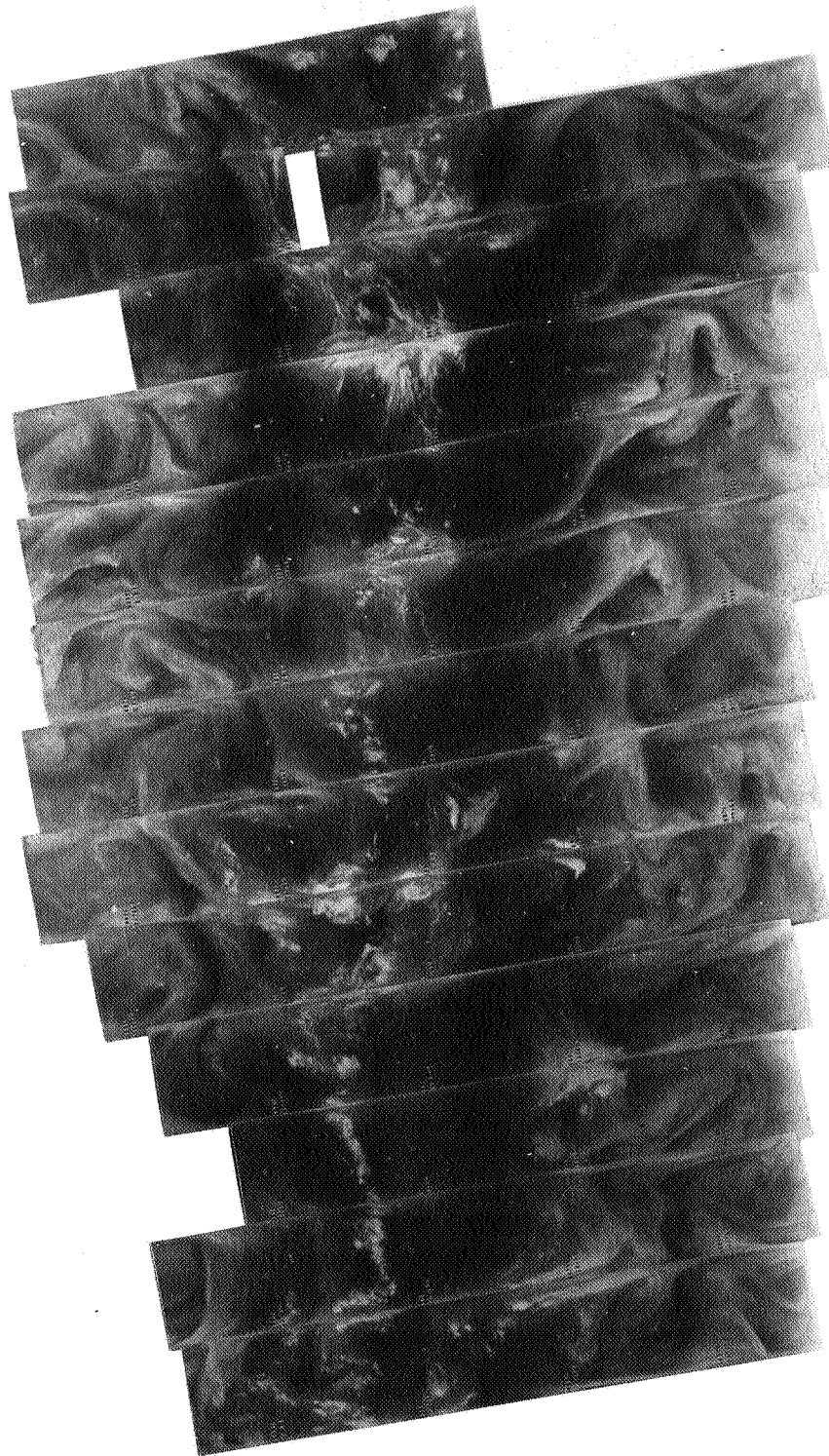
8613 8612 8611 8610 8609 8608 8607 8606 8605 8604 8603 8602 8601

13 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



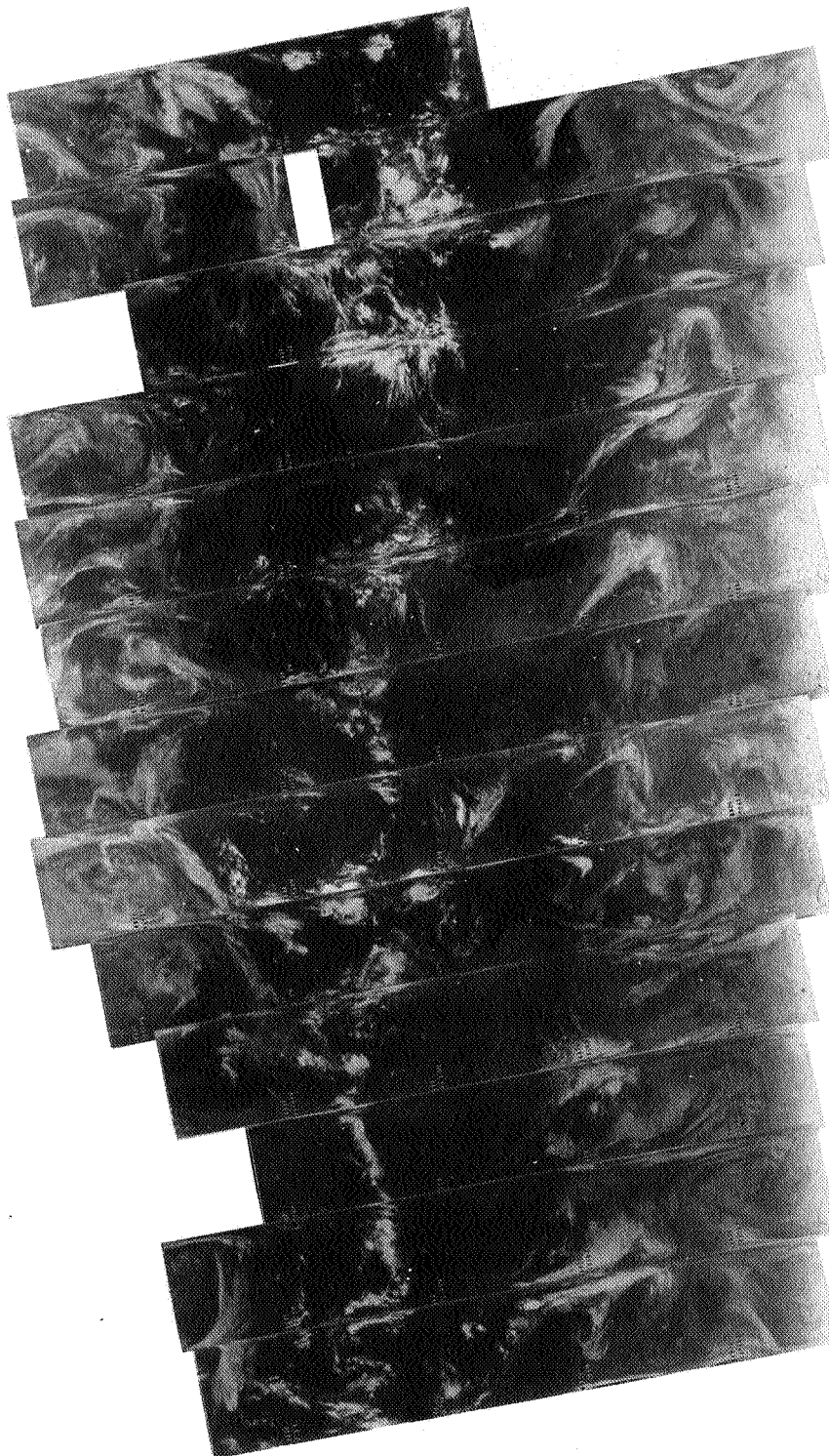
8627 8626 8625 8624 8623 8622 8621 8620 8619 8618 8617 8616 8615 8614

14 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8627 8626 8625 8624 8623 8622 8621 8620 8619 8618 8617 8616 8615 8614

14 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



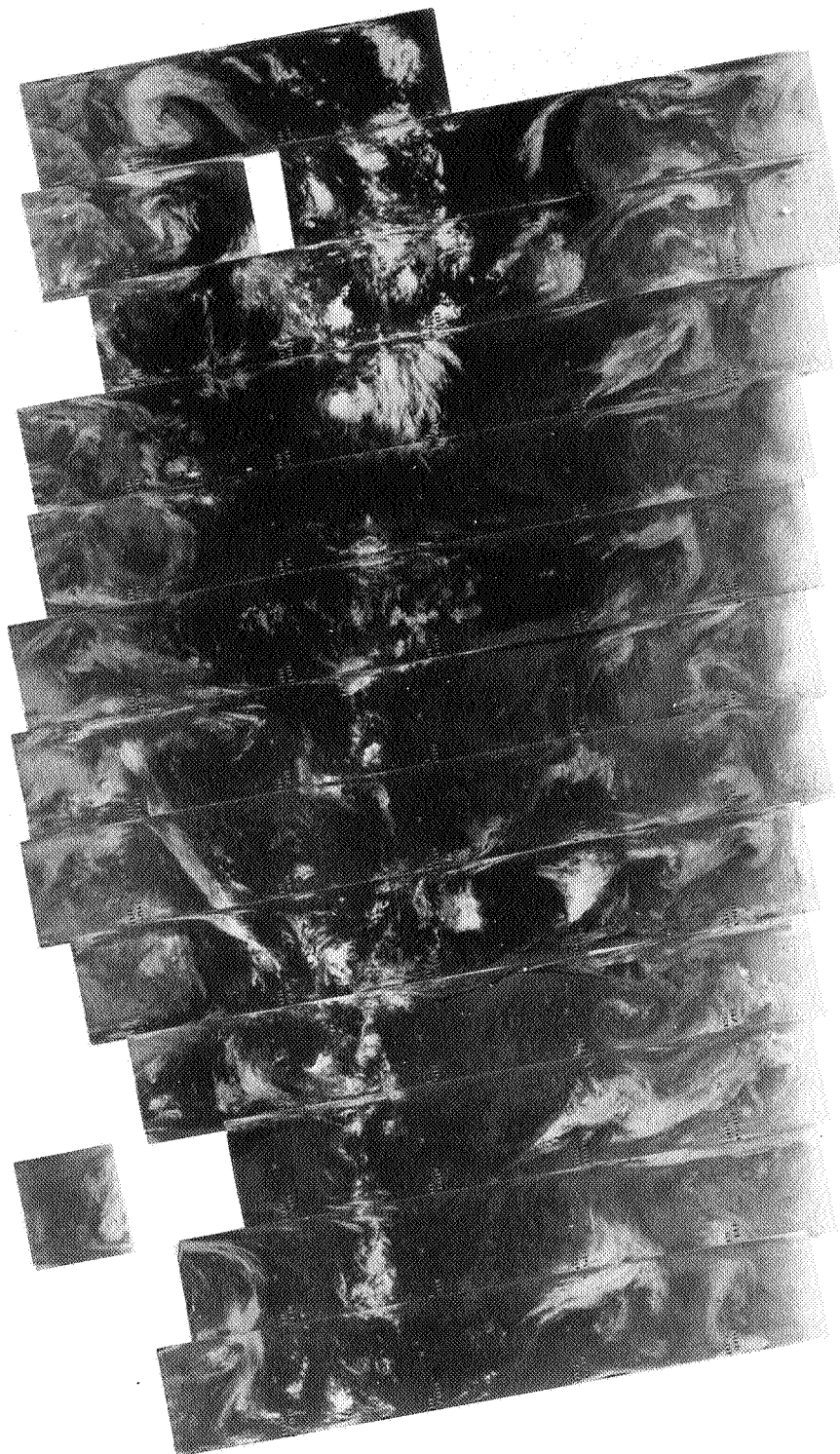
8640 8639 8638 8637 8636 8635 8634 8633 8632 8631 8630 8629 8628

15 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

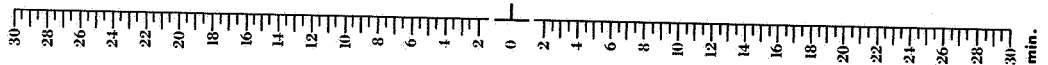


8640 8639 8638 8637 8636 8635 8634 8633 8632 8631 8630 8629 8628

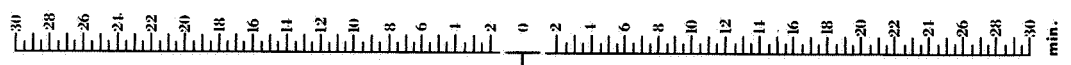
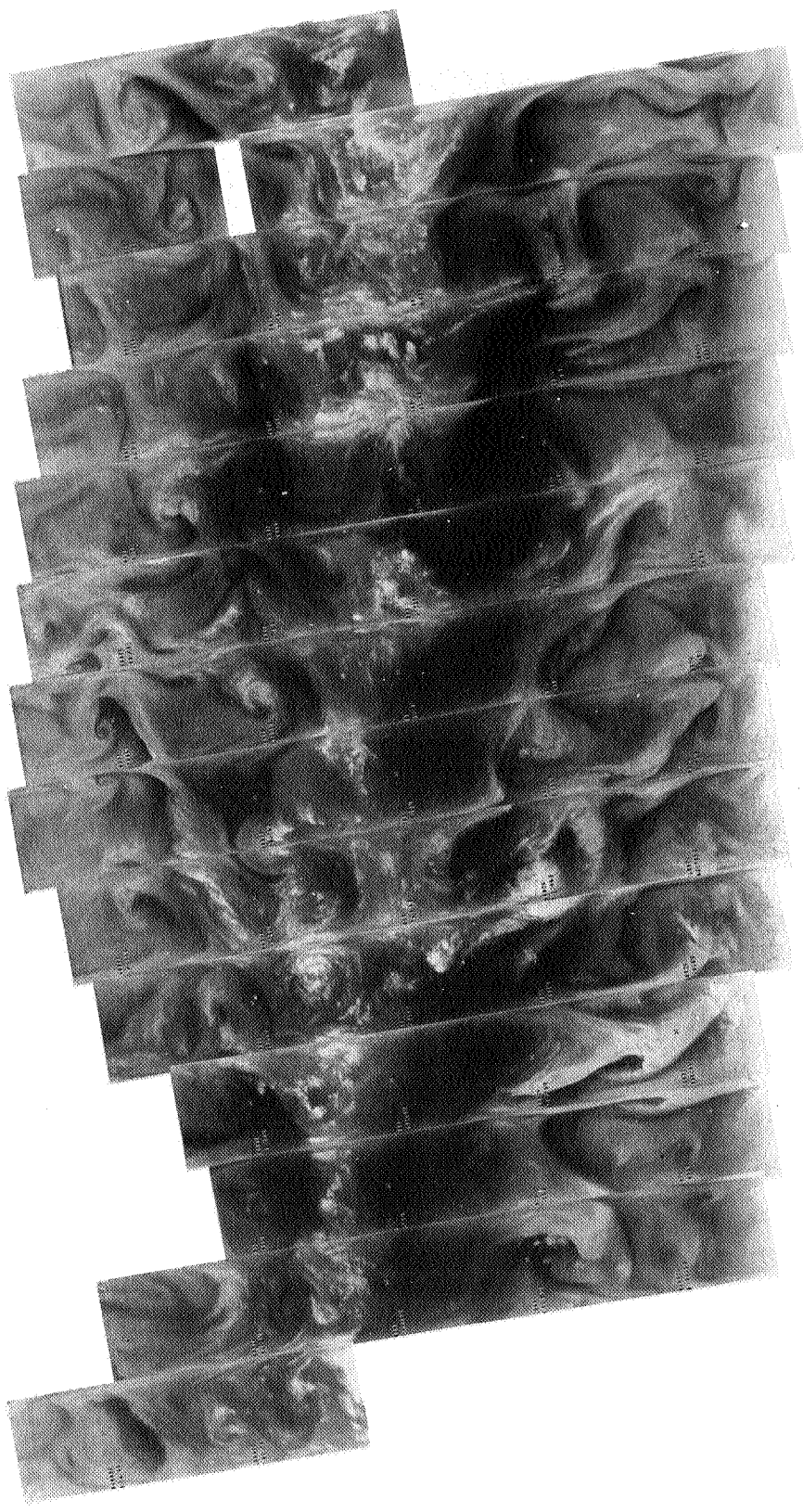
15 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-220

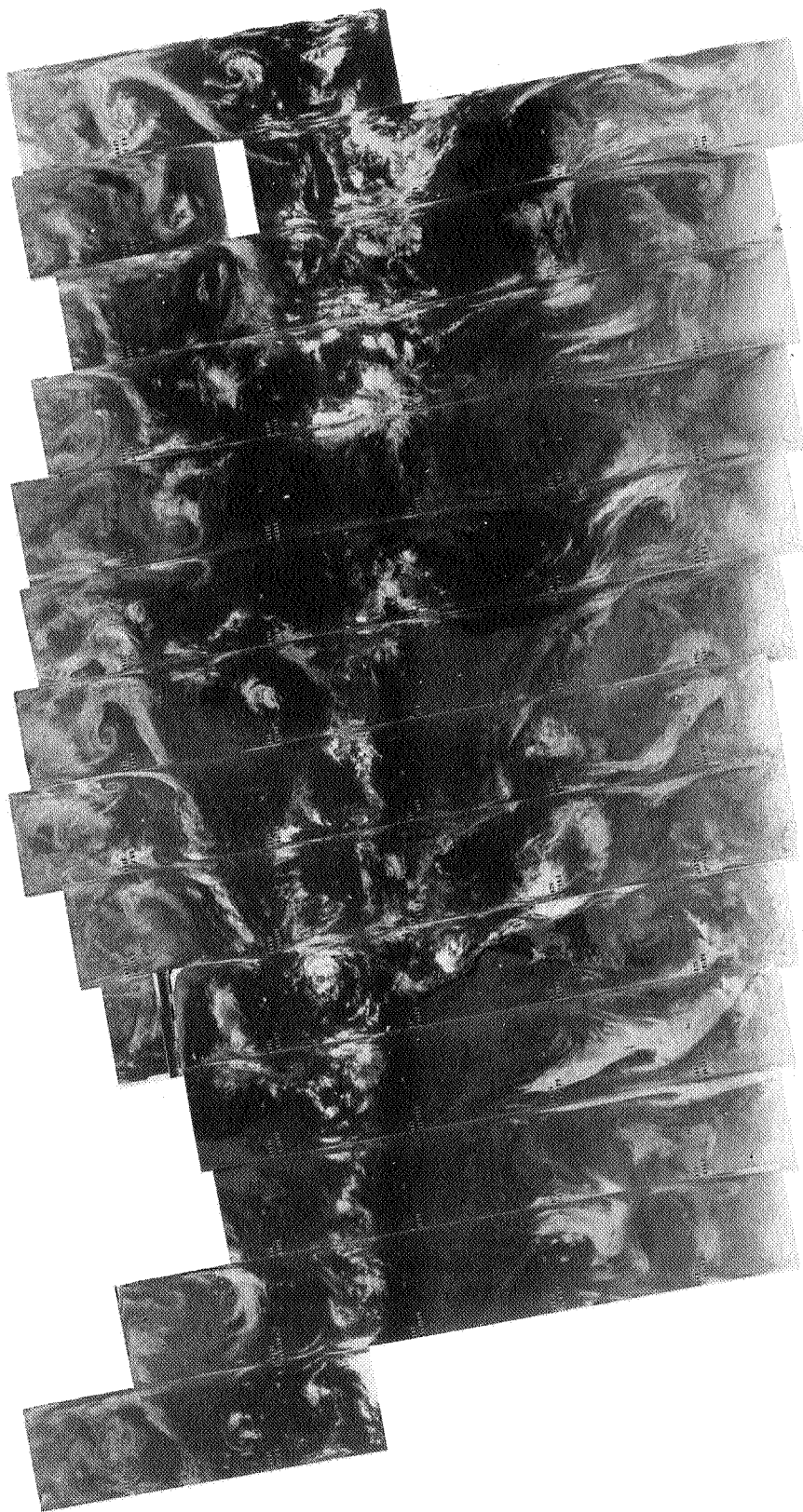


8654 8653 8652 8651 8650 8649 8648 8647 8646 8645 8644 8643 8642 8641

16 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8654 8653 8652 8651 8650 8649 8648 8647 8646 8645 8644 8643 8642 8641

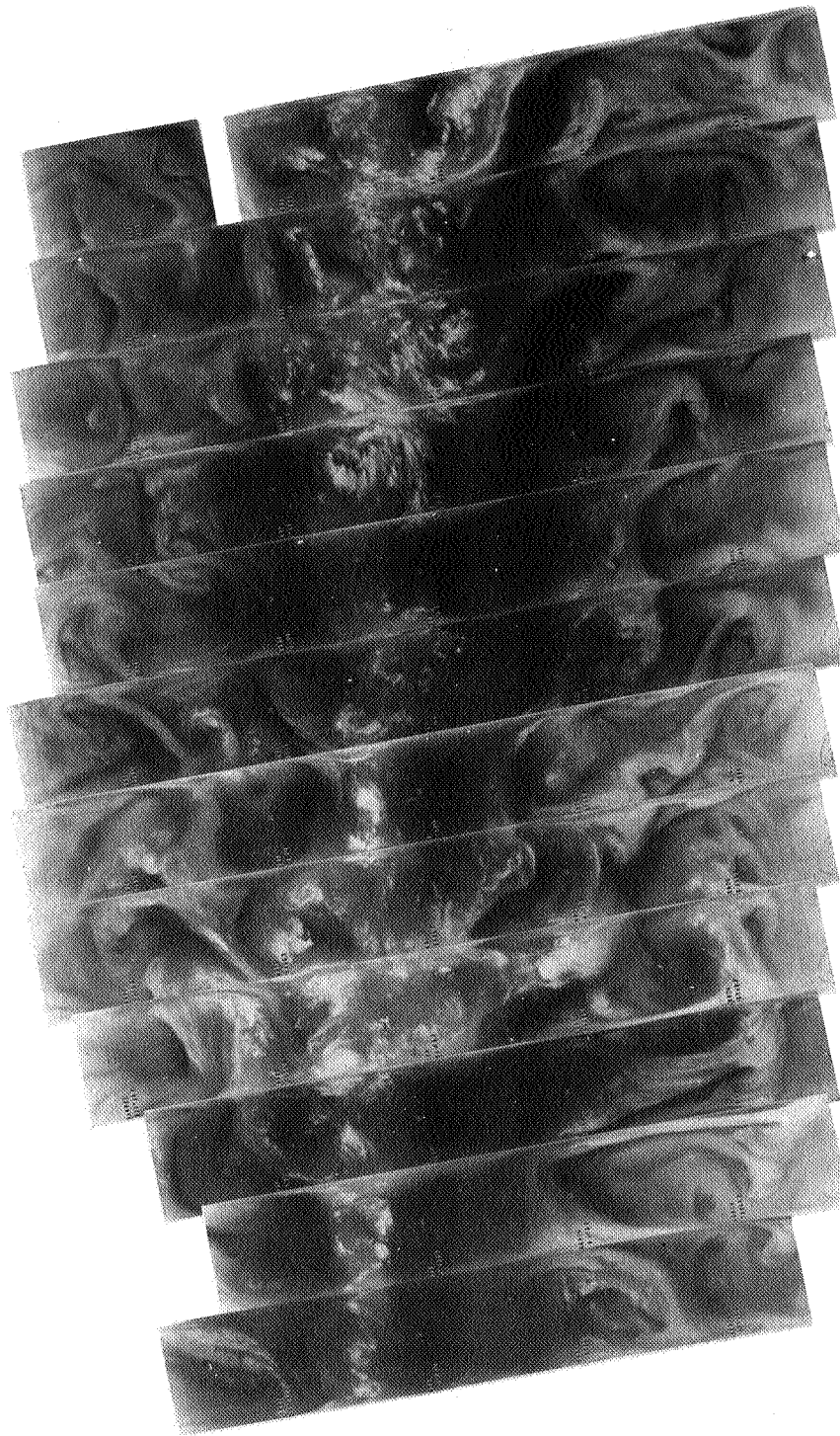
16 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-222

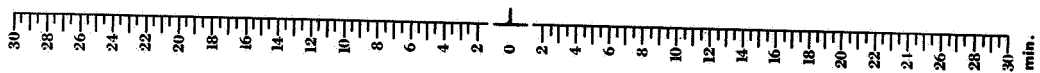


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

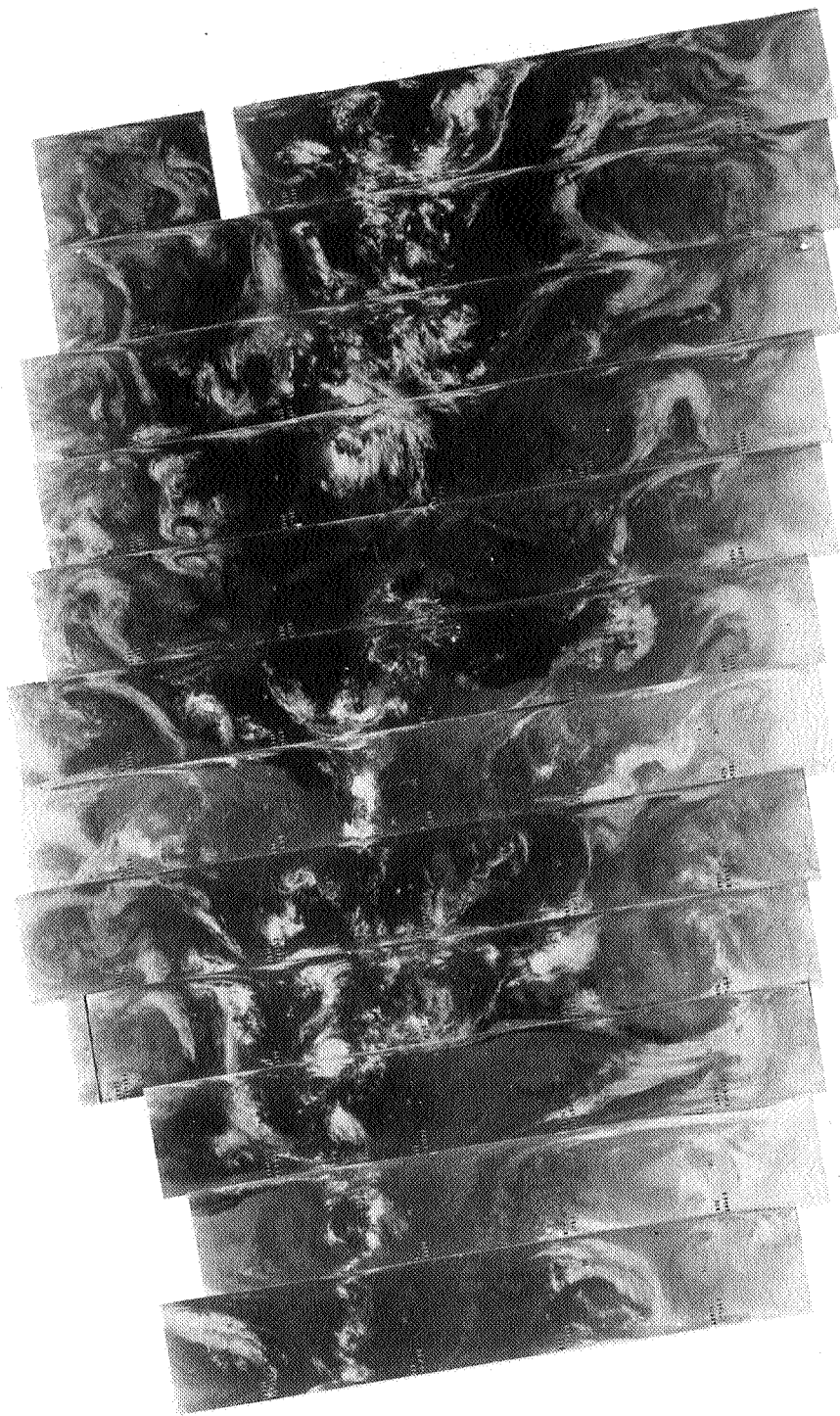
8667 8666 8665 8664 8663 8662 8661 8660 8659 8658 8657 8656 8655

17 SEPTEMBER 1974

6.7 μ m



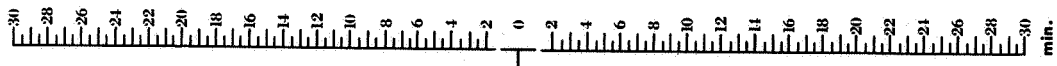
4-223



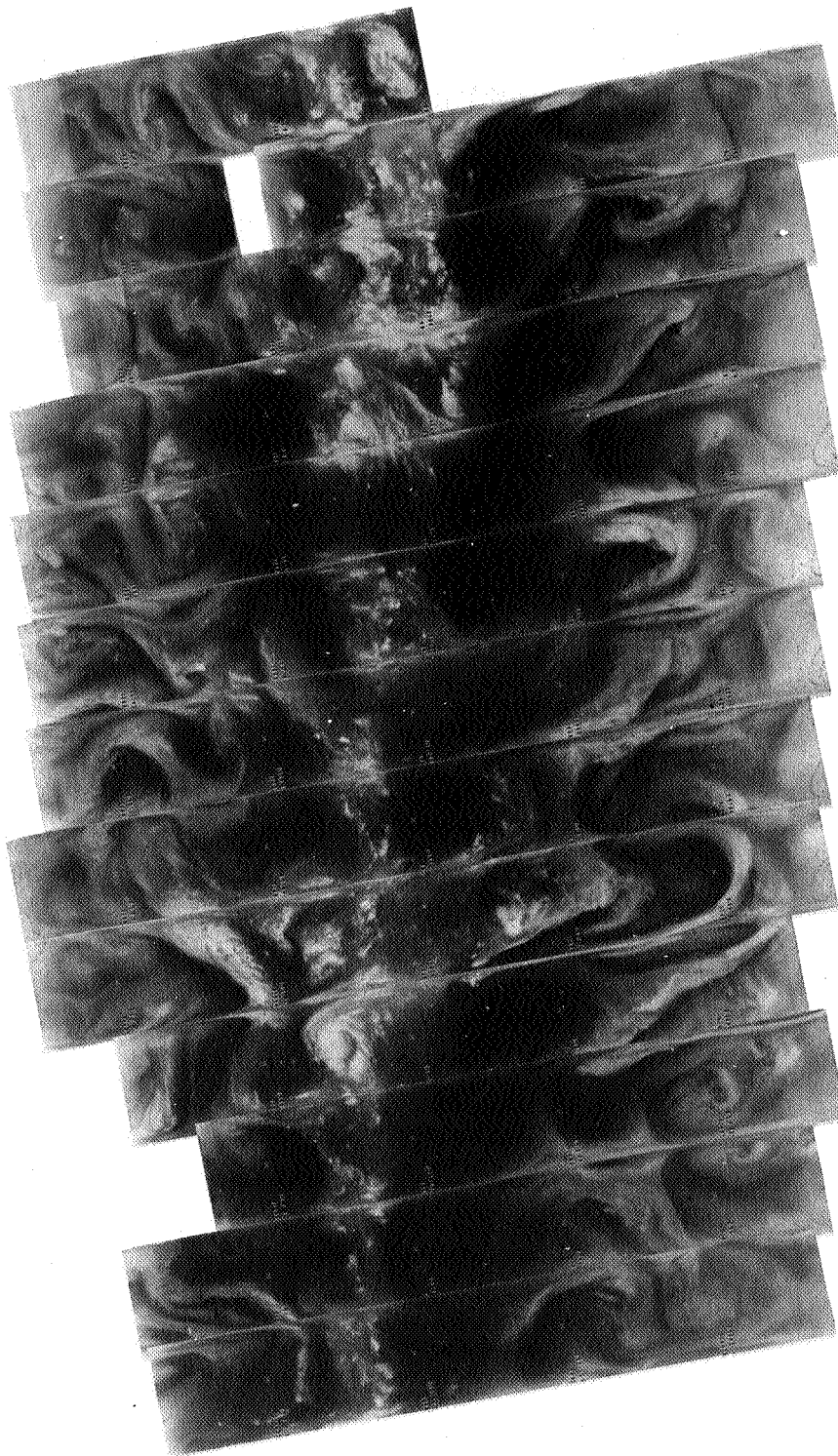
8667 8666 8665 8664 8663 8662 8661 8660 8659 8658 8657 8656 8655

17 SEPTEMBER 1974

11.5 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8680 8679 8678 8677 8676 8675 8674 8673 8672 8671 8670 8669 8668

18 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-225



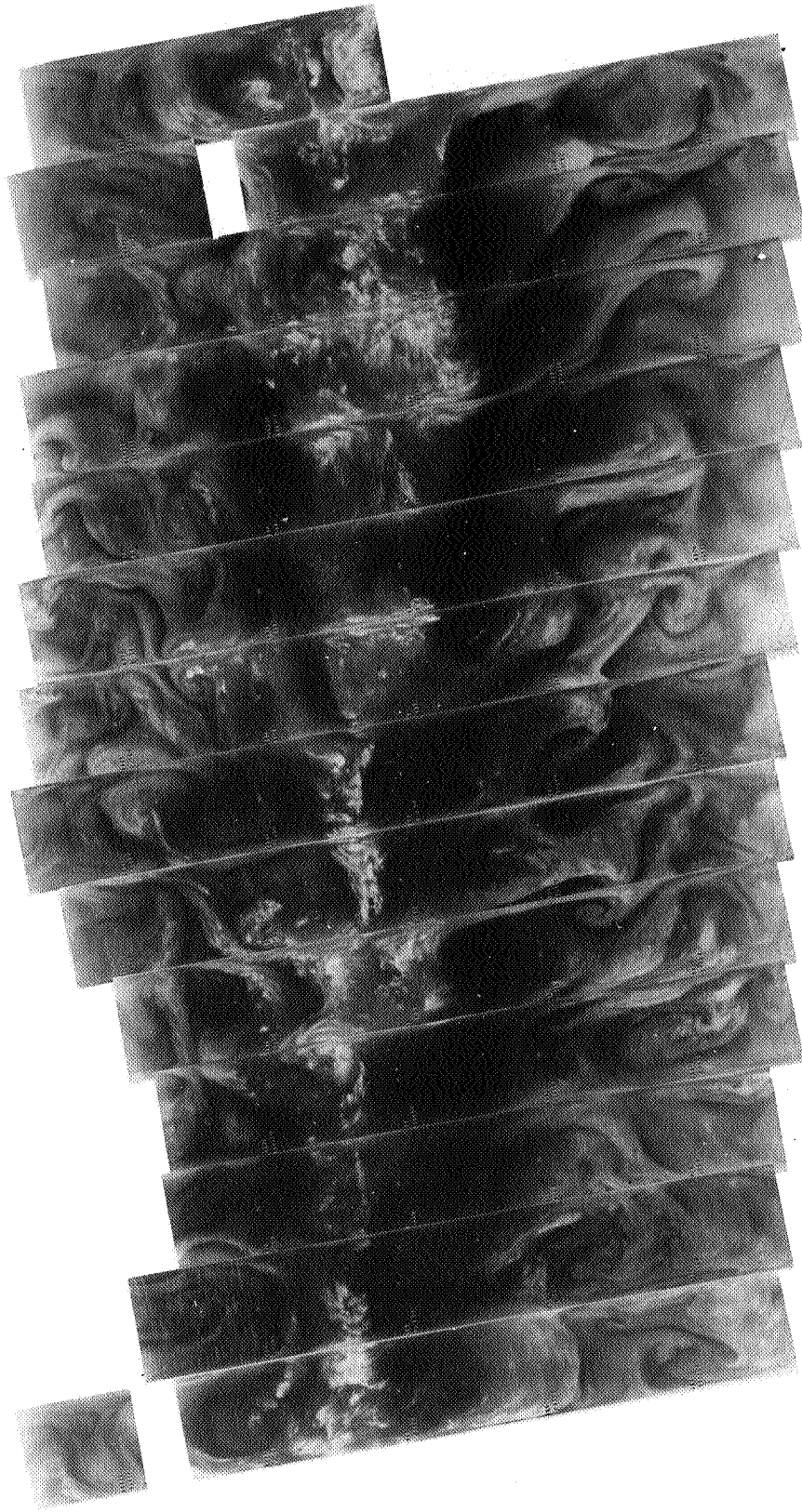
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8680 8679 8678 8677 8676 8675 8674 8673 8672 8671 8670 8669 8668

18 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



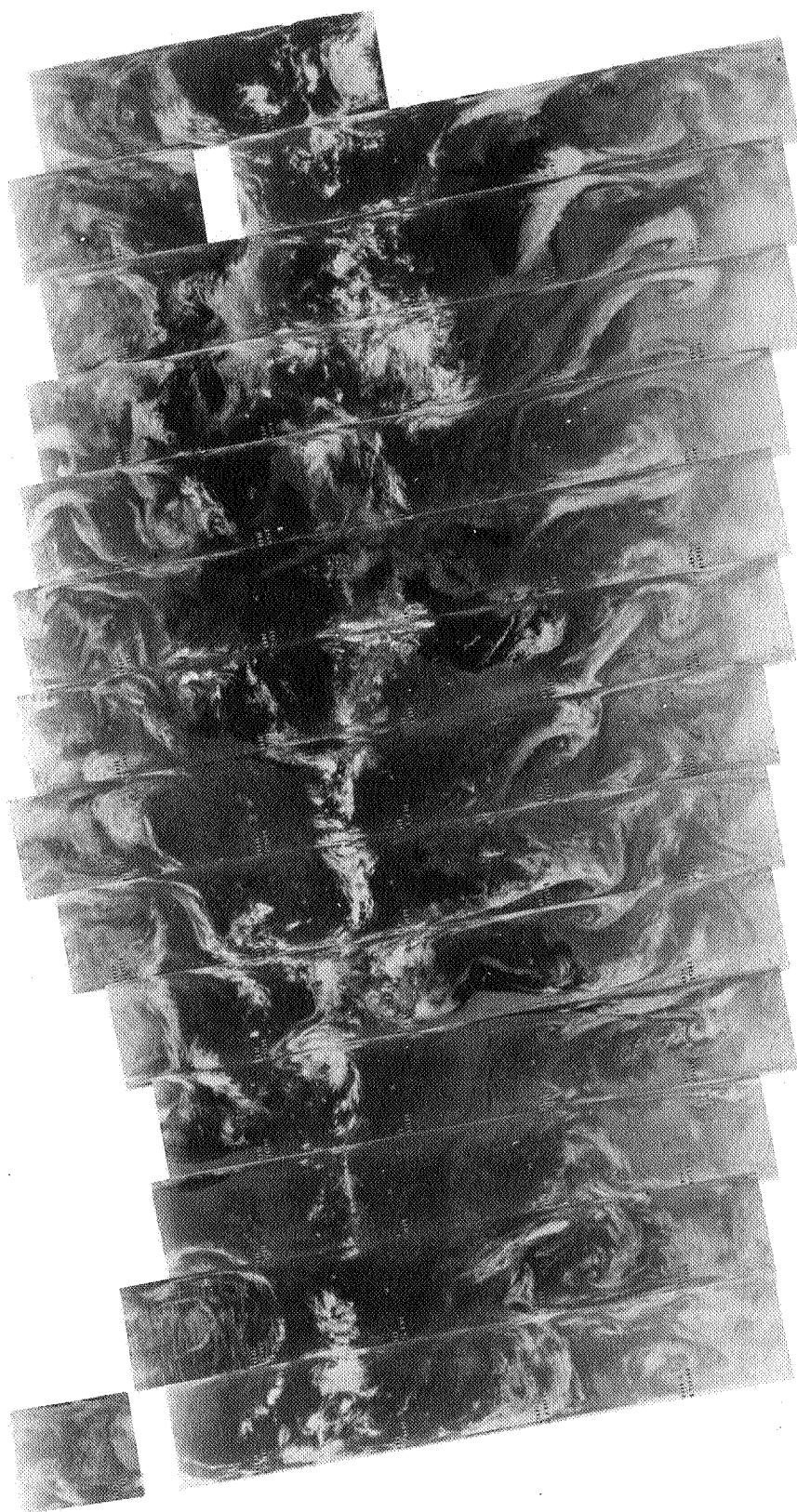
8694 8693 8692 8691 8690 8689 8688 8687 8686 8685 8684 8683 8682 8681

19 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



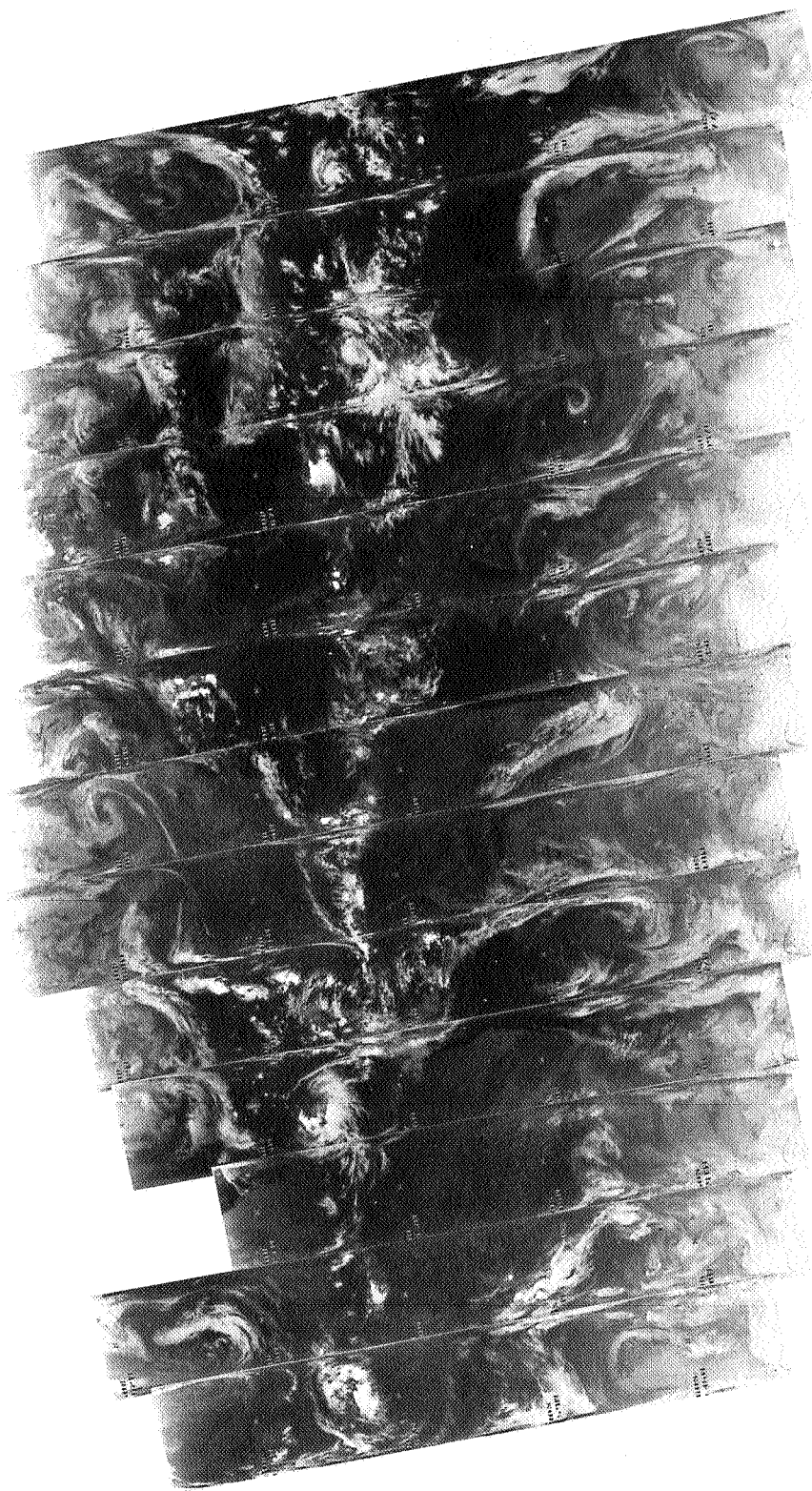
8694 8693 8692 8691 8690 8689 8688 8687 8686 8685 8684 8683 8682 8681

19 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

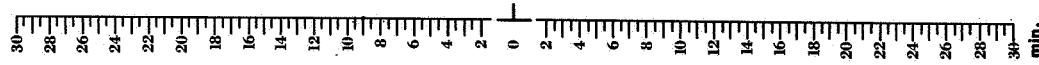


8707 8706 8705 8704 8703 8702 8701 8700 8699 8698 8697 8696 8695

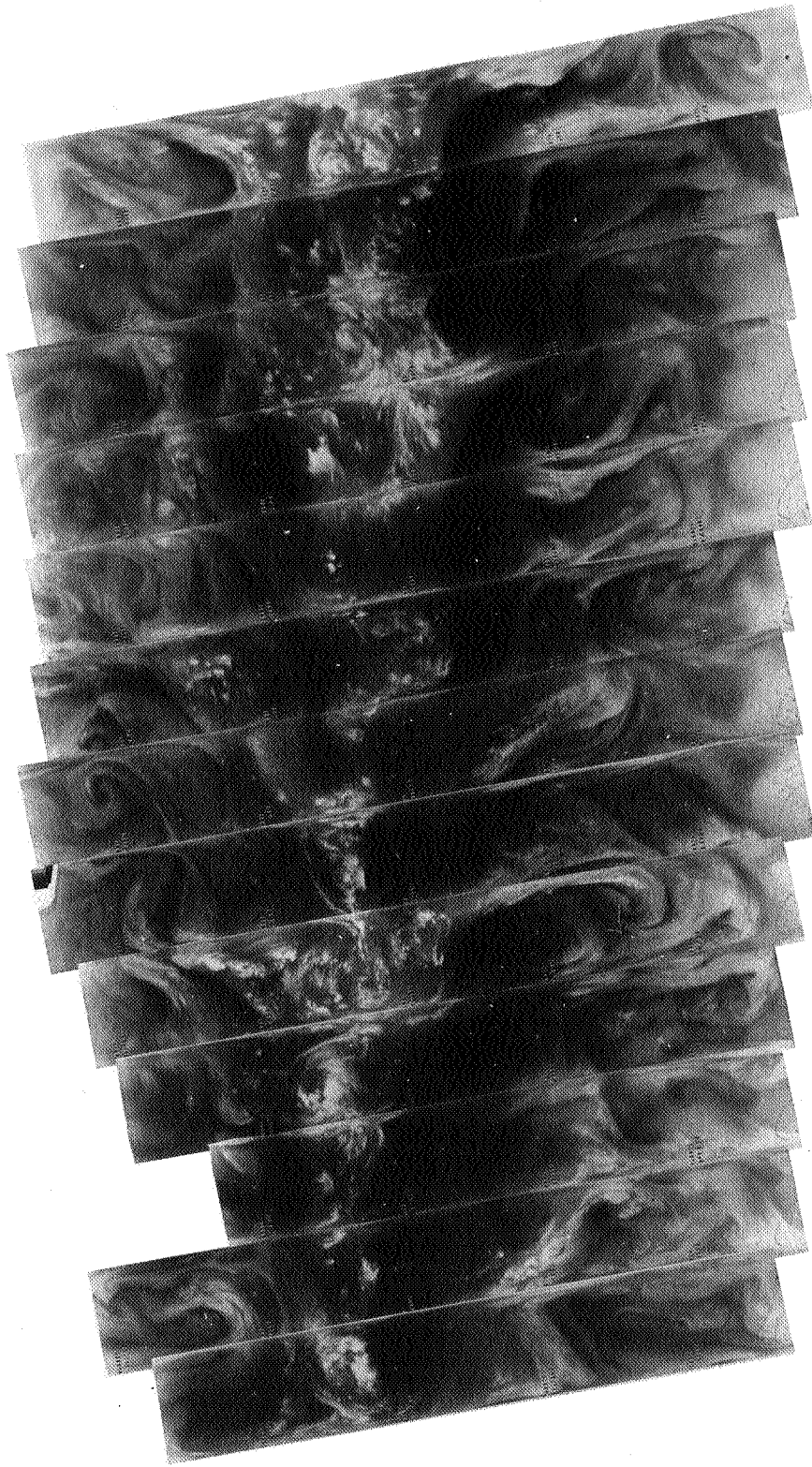
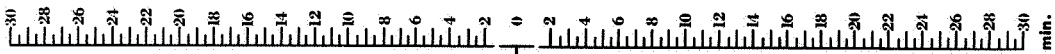
20 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-229

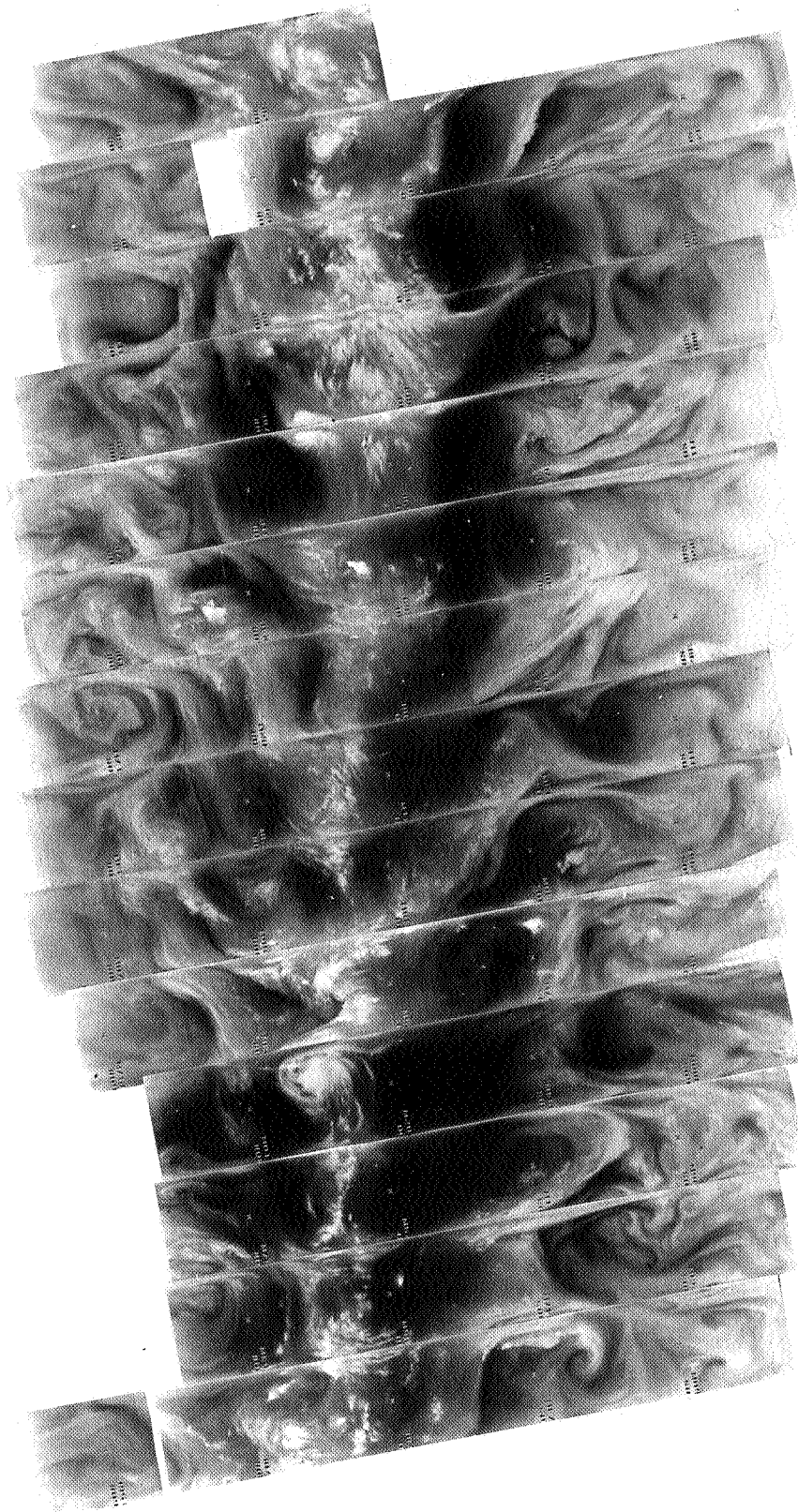


8707 8706 8705 8704 8703 8702 8701 8700 8699 8698 8697 8696 8695

20 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



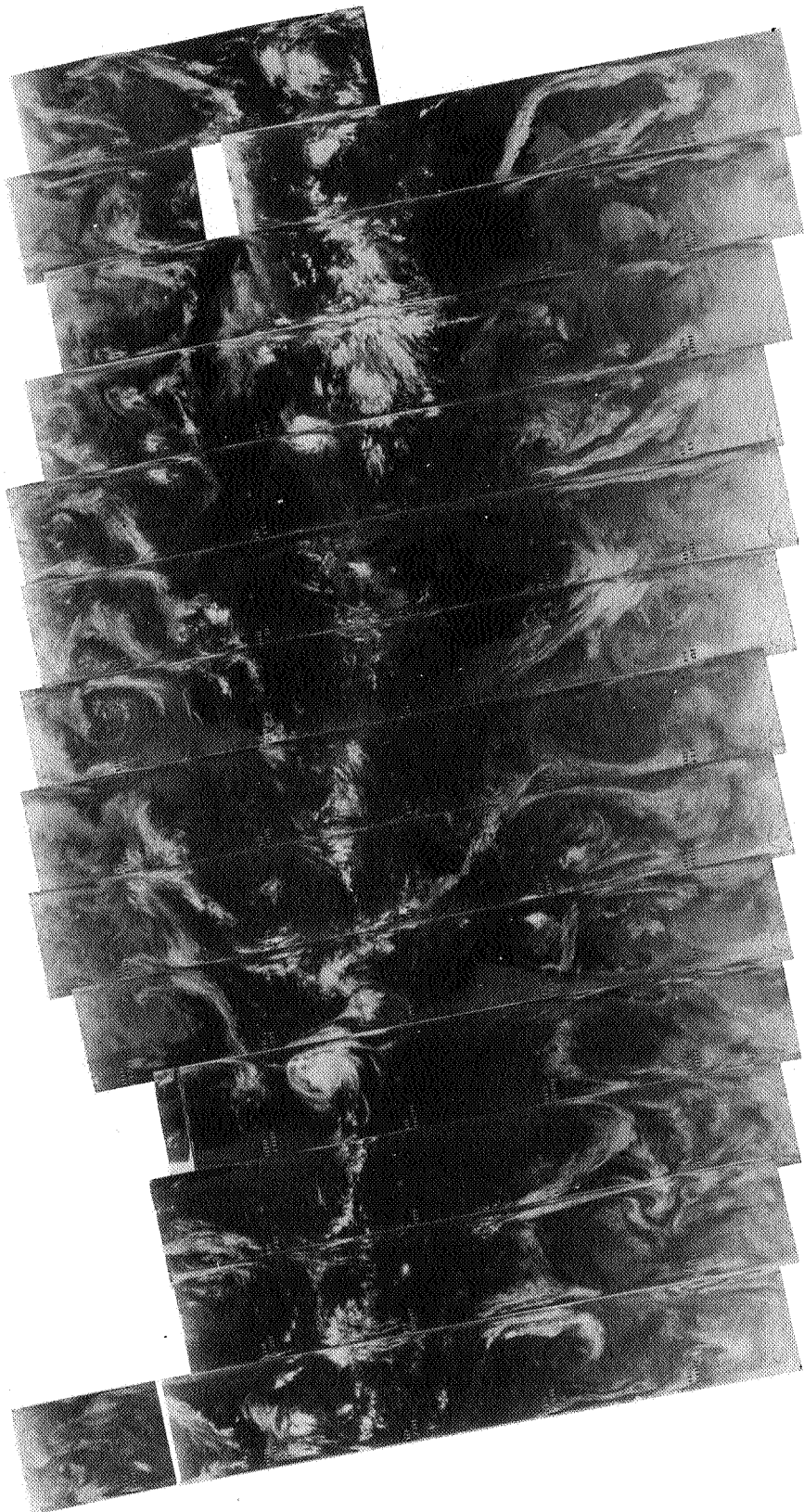
8721 8720 8719 8718 8717 8716 8715 8714 8713 8712 8711 8710 8709 8708

21 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

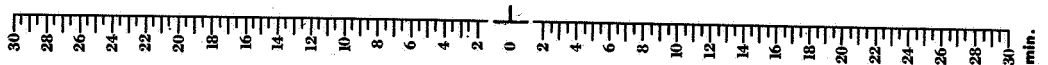


8721 8720 8719 8718 8717 8716 8715 8714 8713 8712 8711 8710 8709 8708

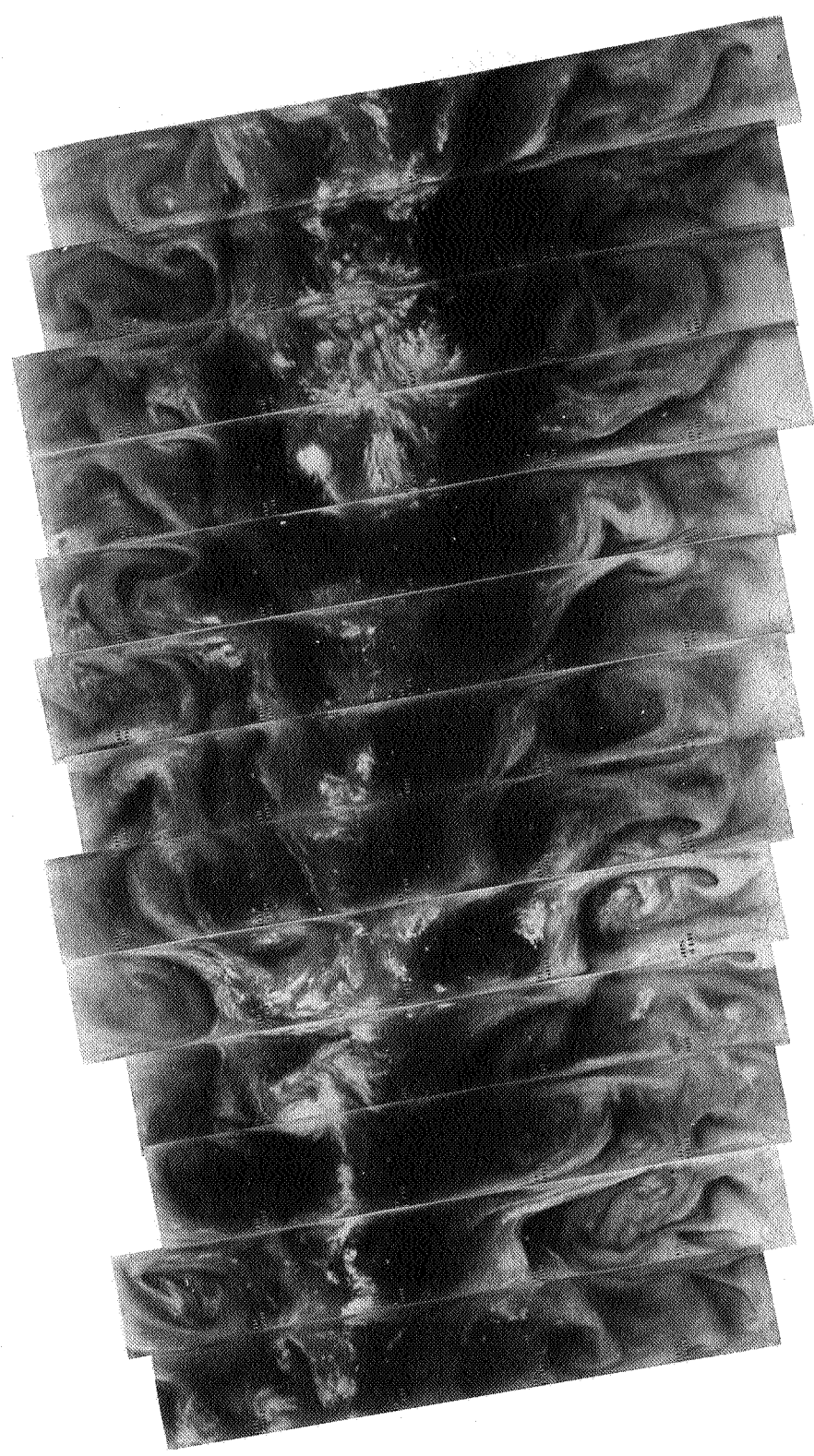
21 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



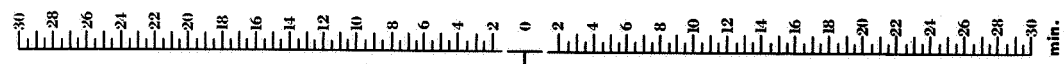
4-232



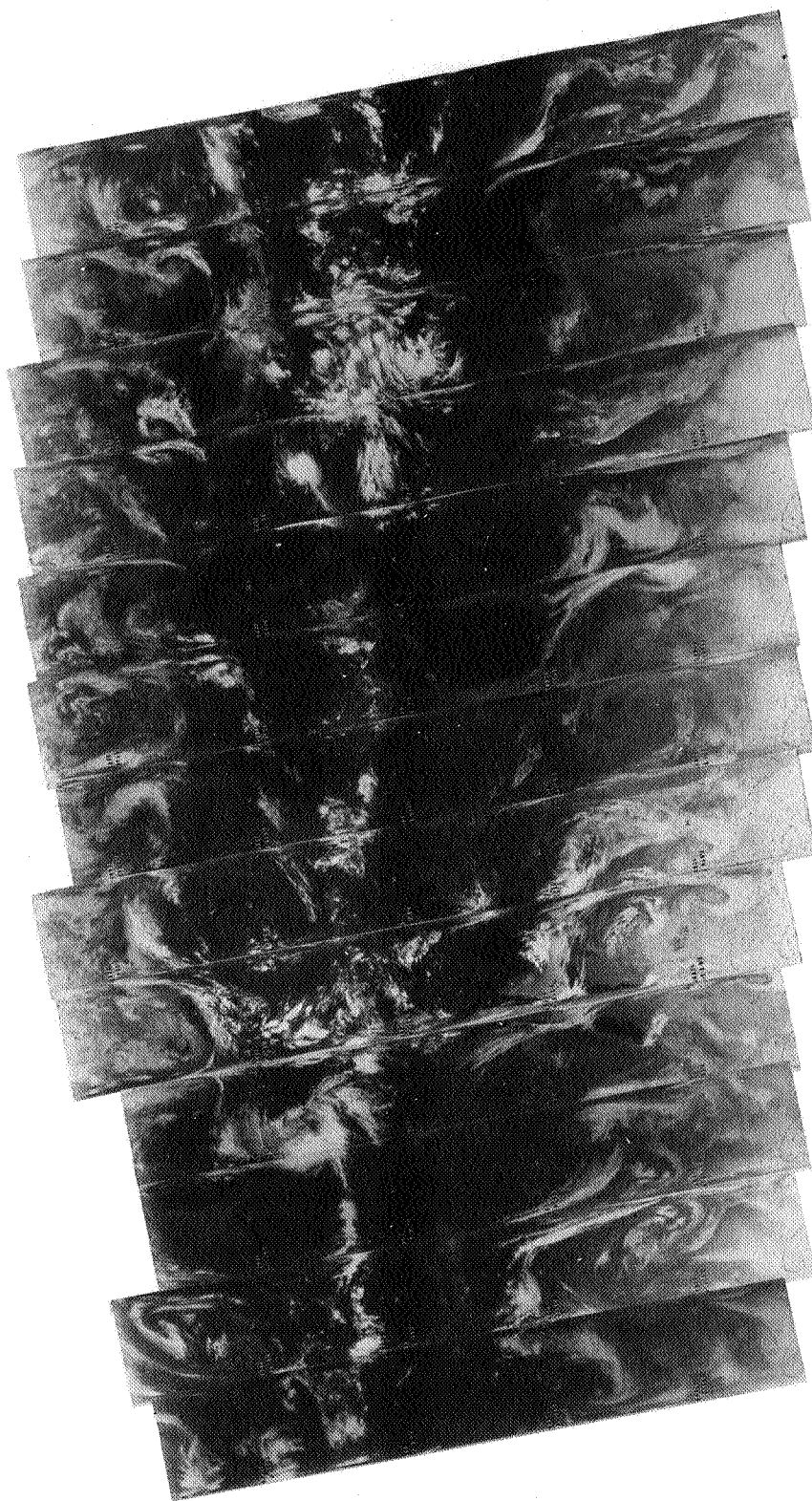
8734 8733 8732 8731 8730 8729 8728 8727 8726 8725 8724 8723 8722

22 SEPTEMBER 1974

6.7 μ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8734 8733 8732 8731 8730 8729 8728 8727 8726 8725 8724 8723 8722

22 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-234



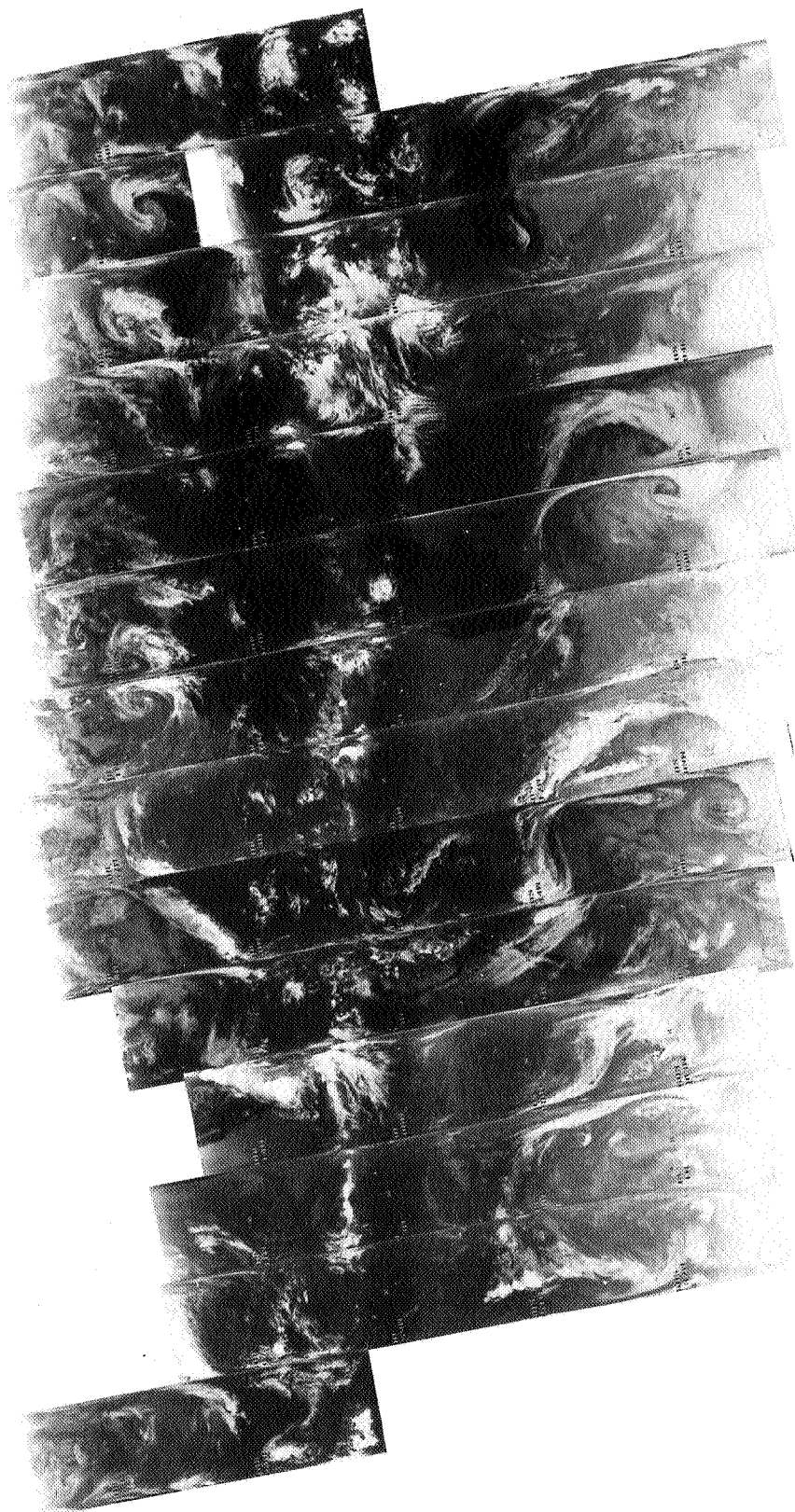
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

8748 8747 8746 8745 8744 8743 8742 8741 8740 8739 8738 8737 8736 8735

23 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min



8748 8747 8746 8745 8744 8743 8742 8741 8740 8739 8738 8737 8736 8735

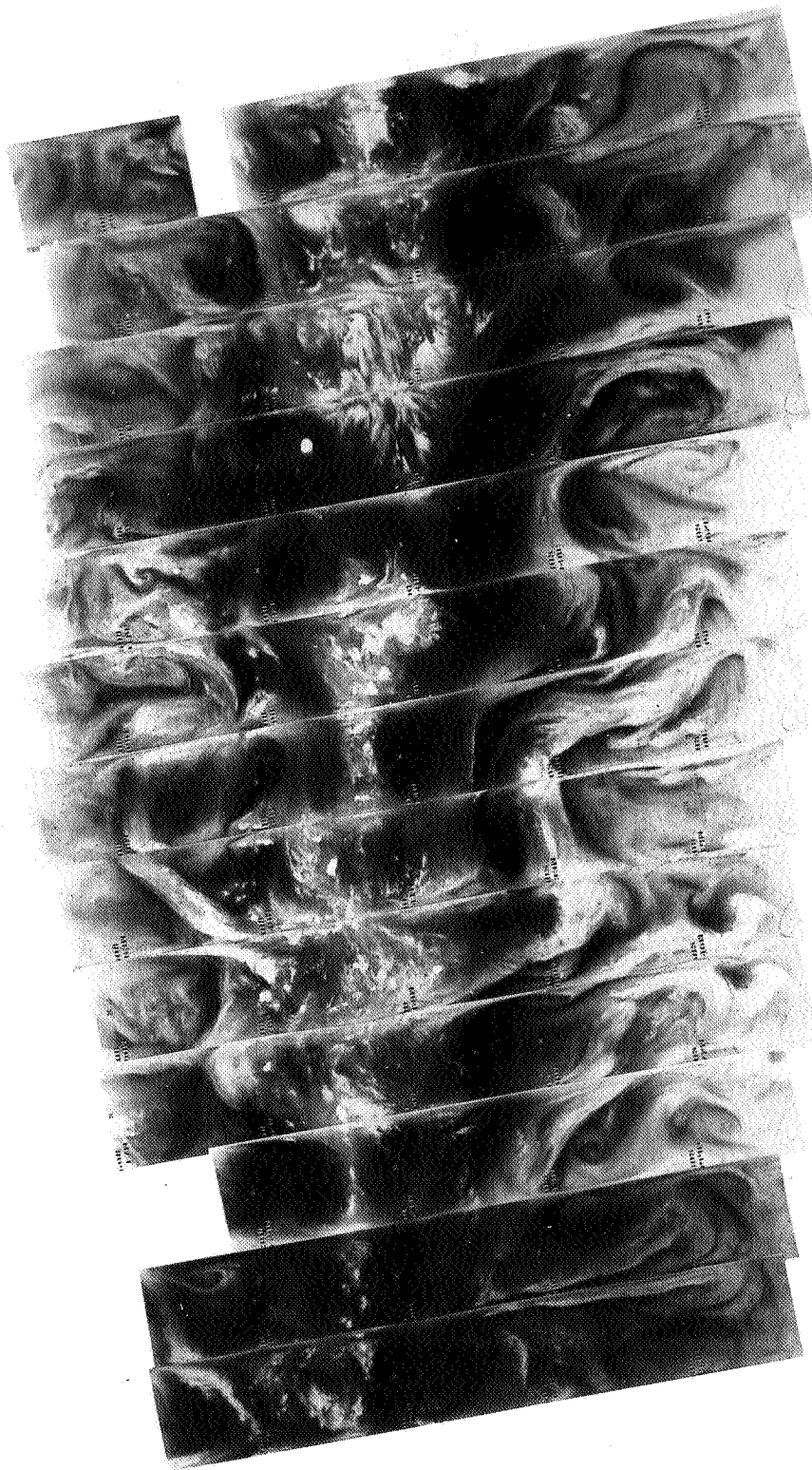
23 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-236



8761 8760 8759 8758 8757 8756 8755 8754 8753 8752 8751 8750 8749

24 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min



8761 8760 8759 8758 8757 8756 8755 8754 8753 8752 8751 8750 8749

24 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



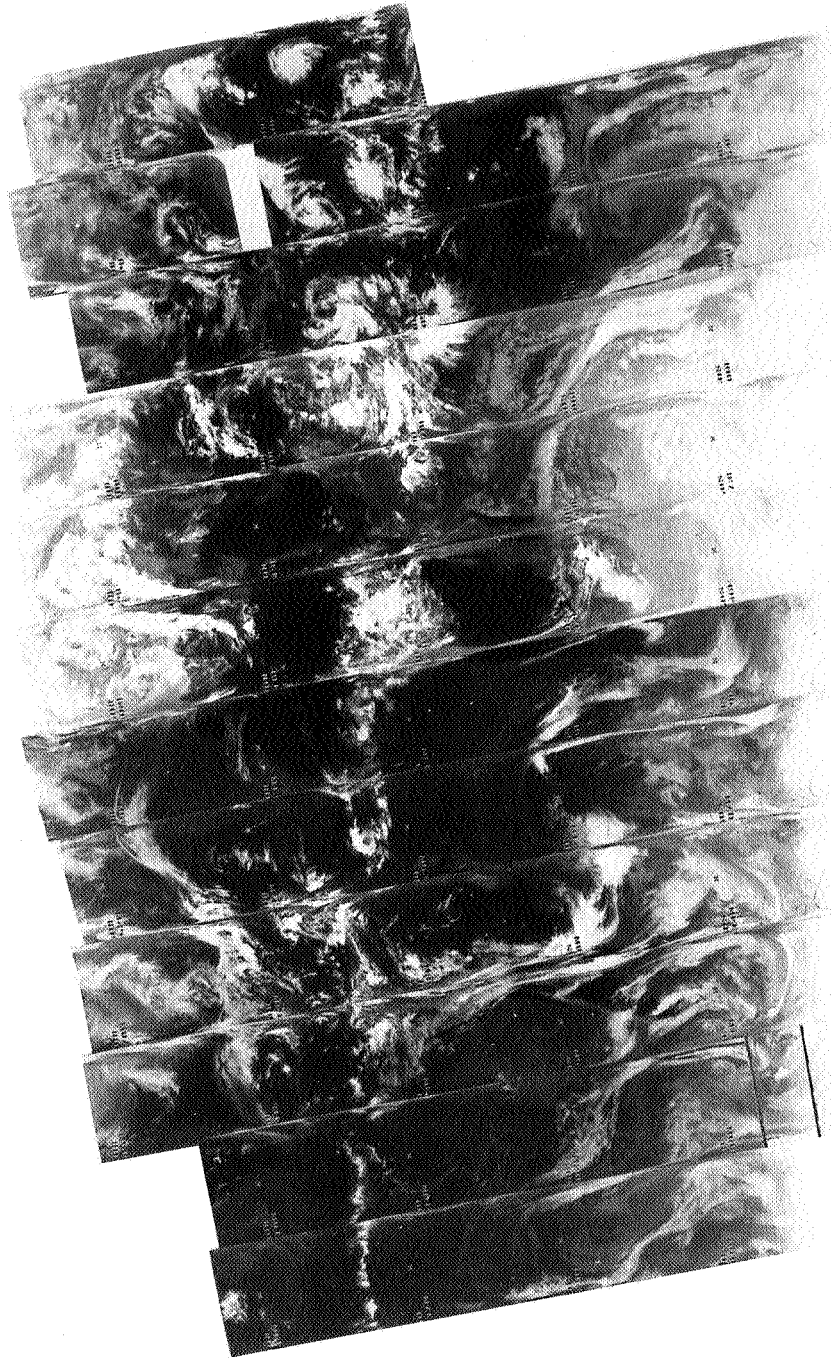
8774 8773 8772 8771 8770 8769 8768 8767 8766 8765 8764 8763 8762

25 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



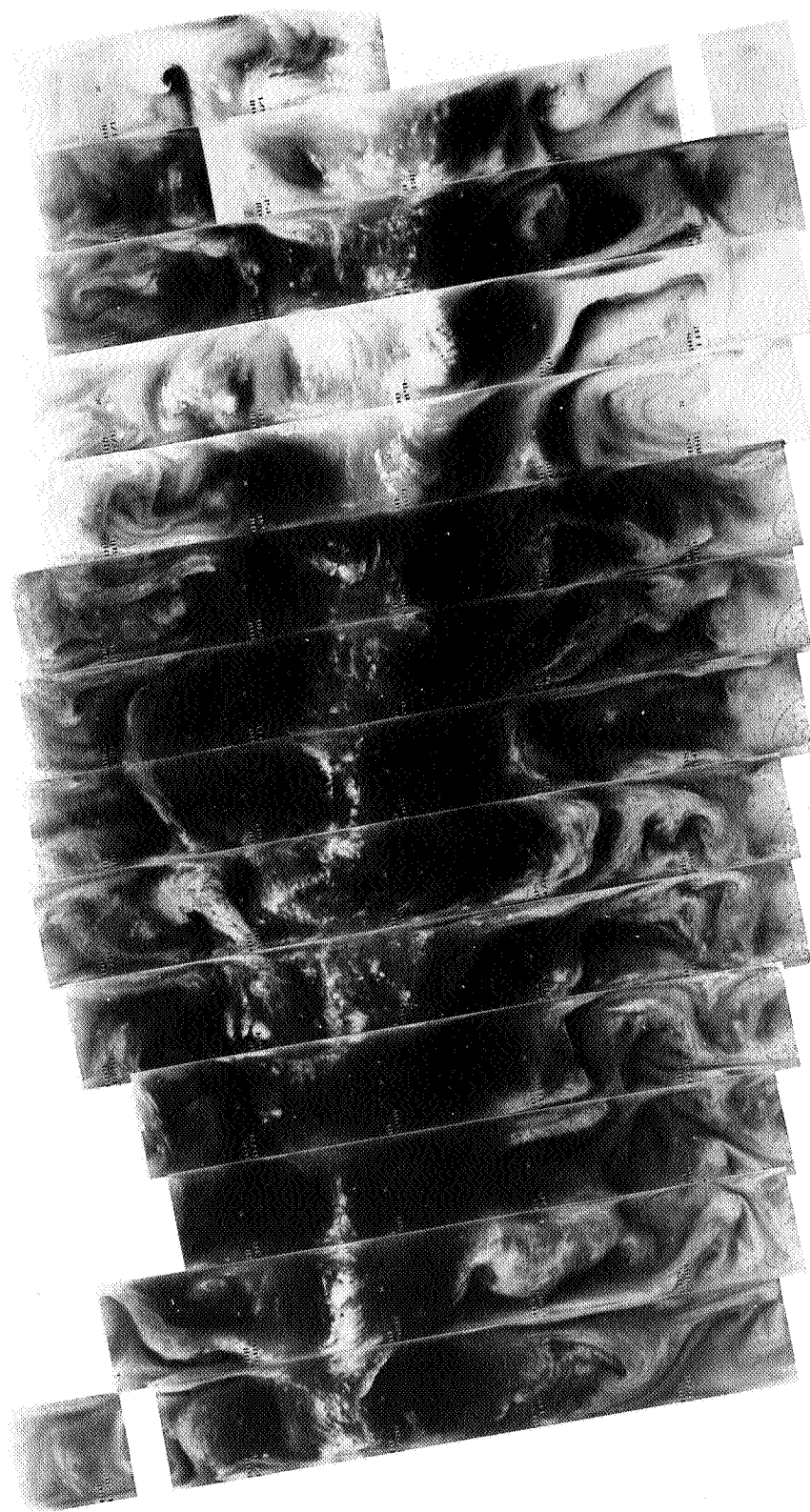
8774 8773 8772 8771 8770 8769 8768 8767 8766 8765 8764 8763 8762

25 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

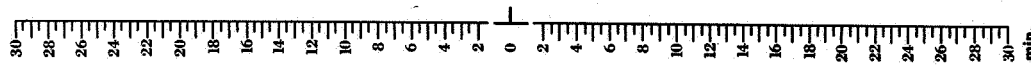


8788 8787 8786 8785 8784 8783 8782 8781 8780 8779 8778 8777 8776 8775

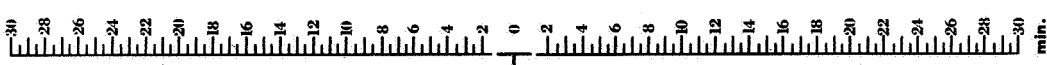
26 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-241



8788 8787 8786 8785 8784 8783 8782 8781 8780 8779 8778 8777 8776 8775

26 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8801 8800 8799 8798 8797 8796 8795 8794 8793 8792 8791 8790 8789

27 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-243



8801 8800 8799 8798 8797 8796 8795 8794 8793 8792 8791 8790 8789

27 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



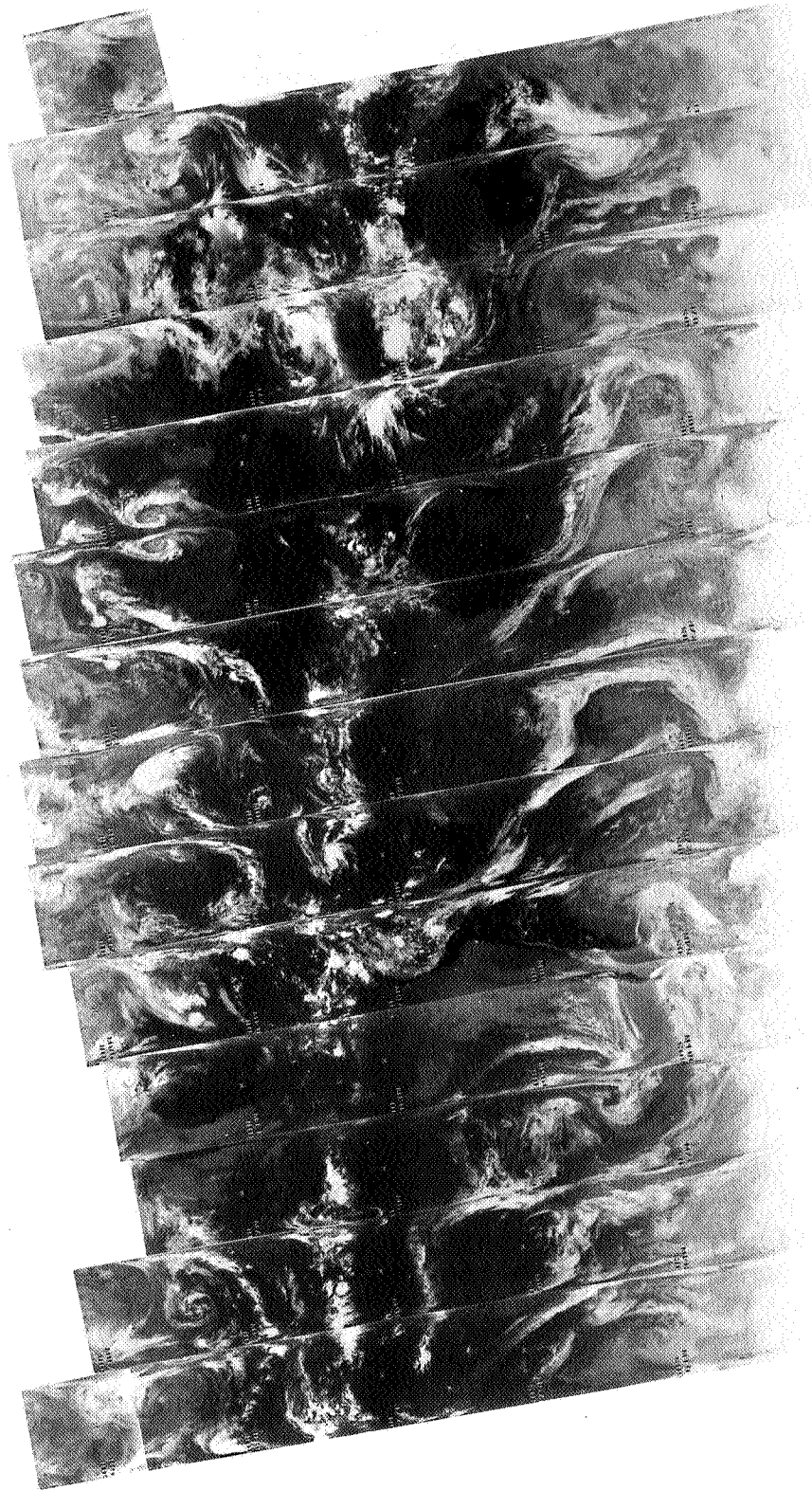
8815 8814 8813 8812 8811 8810 8809 8808 8807 8806 8805 8804 8803 8802

28 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8815 8814 8813 8812 8811 8810 8809 8808 8807 8806 8805 8804 8803 8802

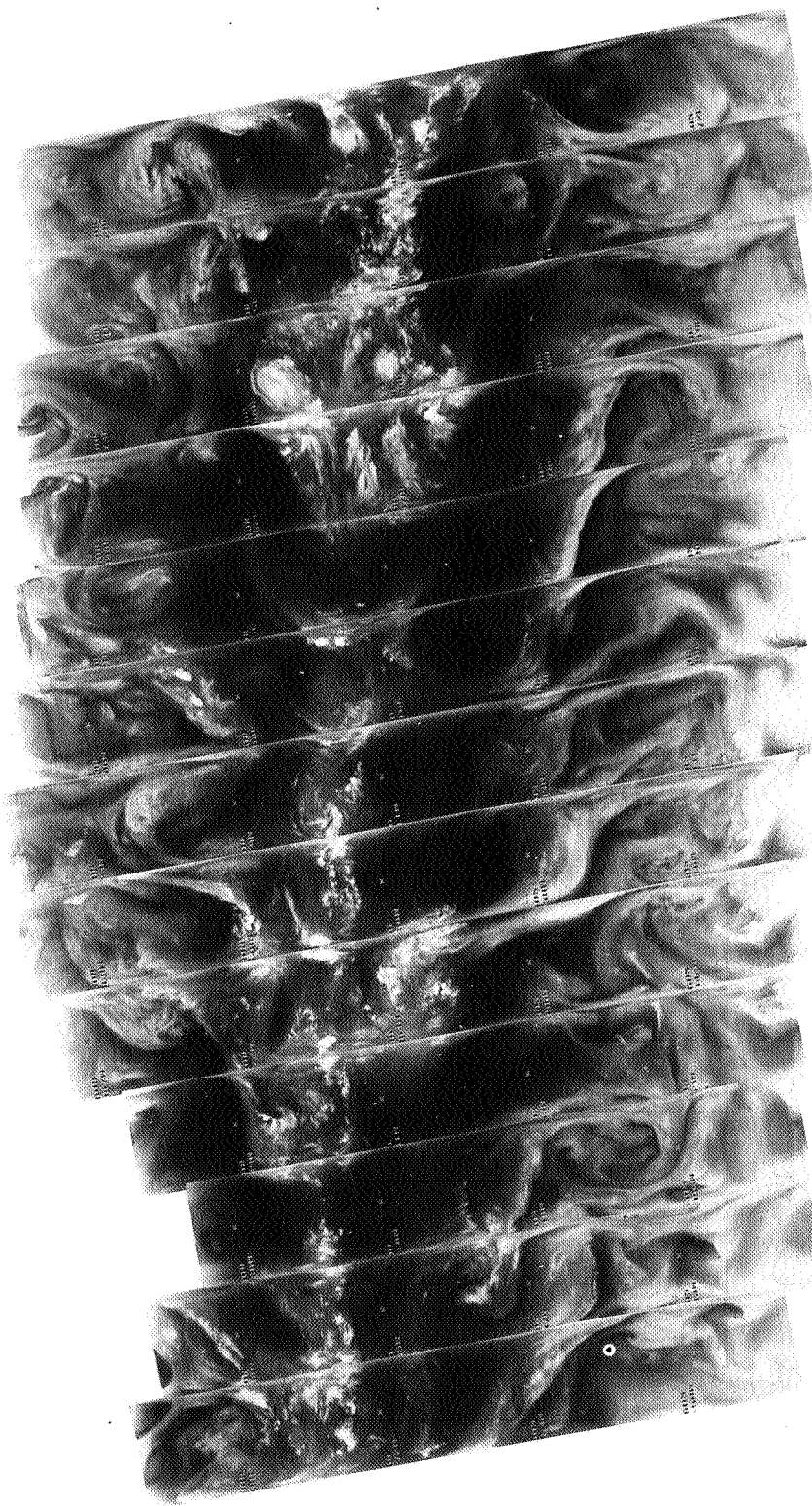
28 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-246



8828 8827 8826 8825 8824 8823 8822 8821 8820 8819 8818 8817 8816

29 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-247



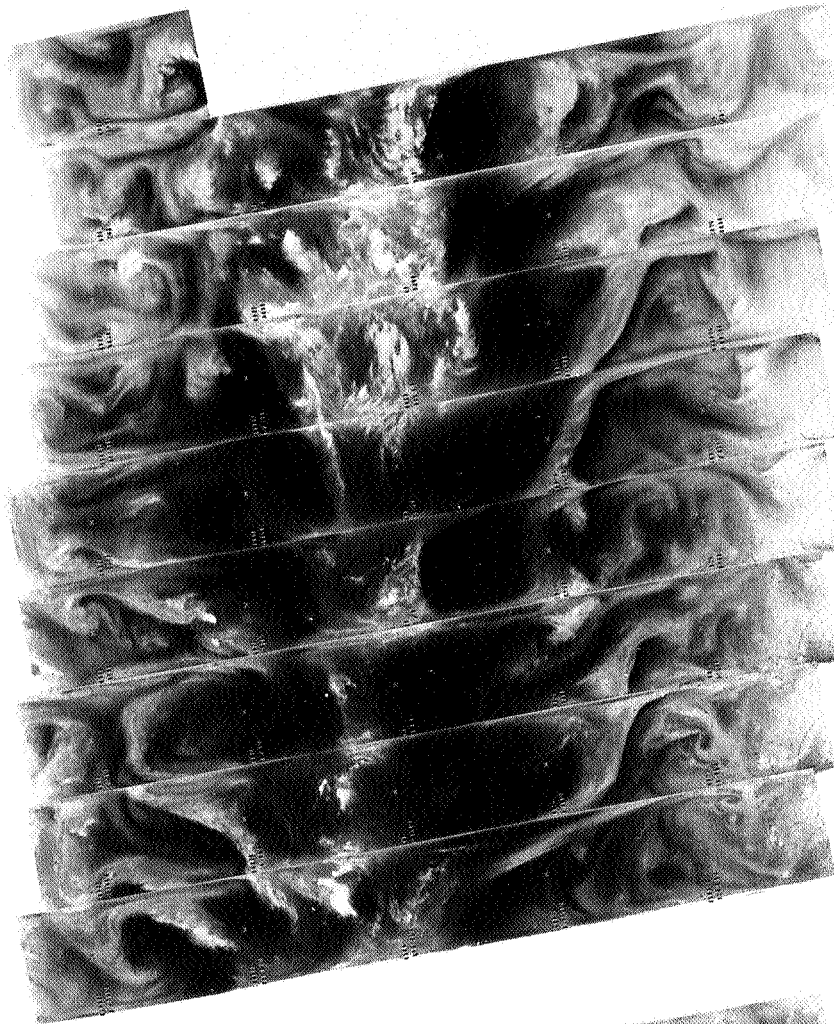
8828 8827 8826 8825 8824 8823 8822 8821 8820 8819 8818 8817 8816

29 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8842 8841 8840 8839 8838 8837 8836 8835 8834 8833 8832 8831 8830 8829

30 SEPTEMBER 1974

6.7 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



8842 8841 8840 8839 8838 8837 8836 8835 8834 8833 8832 8831 8830 8829

30 SEPTEMBER 1974

11.5 μ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

SECTION 5

CORRECTIONS TO THE NIMBUS 5 USER'S GUIDE

This section presents all corrections or additions to The Nimbus 5 User's Guide which now are known to be necessary. If additional corrections are required, they will appear in a subsequent catalog. All previous corrections will be carried forward cumulatively into each new catalog.

5.1 THIR Corrections to the User's Guide

Table 5-1
(First presented in Volume 1)

This table replaces Table 2-3 (page 31) in The Nimbus 5 User's Guide.

Table 2-3

THIR Output Voltages versus Equivalent Blackbody Temperatures at
Different Bolometer Temperatures for the 11.5 μ m Channel

		Bolometer Temperature (°C)				
		0	10	20	30	40
Blackbody Temperature (°K)	0*	-0.405	-0.407	-0.413	-0.421	-0.425
	180	-0.618	-0.617	-0.617	-0.617	-0.606
	190	-0.711	-0.709	-0.706	-0.702	-0.685
	200	-0.829	-0.825	-0.820	-0.811	-0.785
	210	-0.976	-0.970	-0.961	-0.946	-0.911
	220	-1.153	-1.144	-1.130	-1.109	-1.062
	230	-1.363	-1.351	-1.332	-1.302	-1.240
	240	-1.606	-1.591	-1.565	-1.526	-1.448
	250	-1.886	-1.867	-1.834	-1.783	-1.686
	260	-2.202	-2.178	-2.137	-2.074	-1.955
	270	-2.555	-2.526	-2.476	-2.399	-2.256
	280	-2.946	-2.911	-2.851	-2.759	-2.589
	290	-3.375	-3.334	-3.262	-3.153	-2.954
	300	-3.841	-3.793	-3.709	-3.582	-3.352
	310	-4.345	-4.289	-4.192	-4.045	-3.781
	320	-4.886	-4.822	-4.711	-4.543	-4.241
	330	-5.463	-5.391	-5.264	-5.074	-4.733

*Space level

Table 5-2
(First presented in Volume 1)

This table replaces Table 2-4 (page 32) in The Nimbus 5 User's Guide.

Table 2-4

THIR Output Voltages versus Equivalent Blackbody Temperatures at
Different Bolometer Temperatures for the 6.7 μ m Channel

		Bolometer Temperature (°C)				
		0	10	20	30	40
Blackbody Temperature (°K)	0*	-0.507	-0.518	-0.532	-0.556	-0.576
	180	-0.607	-0.618	-0.632	-0.655	-0.674
	185	-0.644	-0.654	-0.669	-0.692	-0.710
	190	-0.692	-0.702	-0.716	-0.739	-0.756
	195	-0.752	-0.762	-0.776	-0.798	-0.814
	200	-0.827	-0.838	-0.851	-0.873	-0.888
	205	-0.921	-0.931	-0.944	-0.966	-0.978
	210	-1.035	-1.045	-1.058	-1.078	-1.089
	215	-1.172	-1.182	-1.195	-1.215	-1.223
	220	-1.337	-1.347	-1.359	-1.379	-1.383
	225	-1.533	-1.543	-1.554	-1.573	-1.573
	230	-1.764	-1.774	-1.784	-1.801	-1.797
	235	-2.033	-2.043	-2.052	-2.068	-2.059
	240	-2.350	-2.355	-2.363	-2.378	-2.362
	245	-2.704	-2.714	-2.721	-2.734	-2.711
	250	-3.115	-3.125	-3.131	-3.142	-3.111
	255	-3.582	-3.592	-3.597	-3.605	-3.565
	260	-4.110	-4.119	-4.122	-4.127	-4.077
	265	-4.704	-4.714	-4.715	-4.717	-4.656
	270	-5.367	-5.378	-5.376	-5.375	-5.300

*Space level

The following information supplements that in paragraph 2.4.1.2 (page 34) in The Nimbus 5 User's Guide. (First presented in volume 5.)

Beginning with orbit 3581 (4 September 1973), the ten-step gray scale will no longer be attached to each orbit of 70mm archival film. However, one gray scale will be attached at the beginning and end of each reel of archival film. A user who requests THIR imagery recorded after orbit 3581 will be furnished a gray scale wedge only if he specifically requests it.

5.2 SCMR Corrections to the User's Guide

There are no SCMR corrections to the User's Guide.

5.3 ESMR Corrections to the User's Guide (First presented in Volume 3)

The following information replaces the next to the last paragraph on page 103 (Section 4.4.5) of The Nimbus 5 User's Guide.

ESMR grid print maps of calibrated brightness temperatures are available from NSSDC in three different map projections. These are: (1) Polar stereographic, (2) Mercator, and (3) Horizontal stereographic (Bull's-eye). Program options permit contouring of the grid print maps, printing of map titles, and using fewer than the full 78 beam positions.

For each map requested, the following information is needed:

- Satellite and sensor
Nimbus 5 ESMR
- Map type
 1. Polar stereographic
 2. Mercator
 3. Horizontal stereographic (Bull's-eye)
- Map scale
Scale of map in millions
- Geographic area
 1. For a Polar stereographic map specify - latitude of map perimeter, and orientation of 0° meridian line. The standard position for the 0° meridian on a northern hemisphere map is 10° clockwise below a left-right horizontal line through the map's pole.

On a southern hemisphere map, 0° meridian is 10° counterclockwise below a left-right horizontal line through the map's pole. For other orientations of the 0° meridian, the user must specify, preferably with a sketch, the orientation desired.
 2. For a Mercator map specify - latitude of upper and lower edges of map, and longitudes of left and right edges of map. Longitudes are measured west from Greenwich (0°).
 3. For a Horizontal stereographic (Bull's-eye) map specify - latitude and longitude (west from Greenwich) of map center, pseudo co-latitude

of map perimeter (number of degrees of latitude from map center), and azimuth of 0° longitude line. If not specified, the azimuth will be located as it is for the Polar stereographic map.

- Calendar date of data requested
- Data orbit number(s)
- Beginning and end time (GMT) of the date for each map requested. These times are derived from information in Table 2-2 of each Nimbus 5 Data Catalog.

Optional specifications for each map are the following:

- ESMR beam parameters
The user can specify, or limit, the range of beam positions used to produce each map. If no specifications are made, beam positions 1 through 78 are used.
- Map title
For each map, the user may specify a title containing up to 70 characters.
- Contouring
Normally, maps are printed without contours. To obtain contoured maps, the user must specify a contour base (or lower temperature limit e.g., 130°K) and a contouring interval (e.g., contour every 10°K). The contour program fills in the first contour interval above the contour base with the letter "A", the next interval is blank, the next is filled in with the letter "B", etc.

(The following was first presented in Volume 2.)

Table 4-4 of The Nimbus 5 User's Guide will not be supplied. Table 5-3 is to be used in its place.

As stated in The Nimbus 5 Data Catalog, vol. 1, the antenna properties changed after final calibration and rendered those numbers useless. The cause of the gross variations in antenna properties which were observed soon after launch has been determined to be a cross-polarized grating lobe. This finding has been confirmed through measurements on the engineering model and on the proto/flight model of the ESMR, and through theoretical calculations. The problem does not exist for the near-nadir beam positions, so those positions are unaffected. A quantitative discussion of this problem is included in the report of the Nimbus 5 ESMR Anomaly Review Committee.

An empirical calibration has been developed which removes the effect of the lobe structure and antenna loss, which vary with position, and roughly corrects for angular variations in viewing geometry. In this calibration scheme the antenna loss ratio is assumed to be 1.56 for all temperatures and beam positions, and a linear correction is applied to the data. The correction is given by:

$$T_i' = A_i T_i + B_i$$

where T_i' is the corrected brightness temperature for the i -th beam position and T_i is the brightness temperature calculated with the assumption of a constant antenna loss. A_i and B_i are empirically derived constants given in Table 5-3.

Table 5-3

Constants for Linear Correction of Brightness Temperatures
Corresponding to ESMR Beam Positions

Beam Position	A	B(°K)	Beam Position	A	B(°K)
1	1.058	4	27	0.941	11
2	1.027	10	28	0.947	10
3	0.990	16	29	0.937	11
4	0.980	14	30	0.942	10
5	0.963	17	31	0.963	6
6	0.987	15	32	1.003	-3
7	0.970	17	33	1.002	-3
8	0.961	19	34	0.976	1
9	0.969	18	35	0.988	-1
10	0.980	16	36	1.004	0
11	0.980	17	37-42	1.000	0
12	1.018	10	43	1.002	-3
13	0.999	12	44	0.962	4
14	0.989	13	45	0.960	4
15	0.975	15	46	0.980	2
16	0.974	15	47	0.966	4
17	0.994	10	48	0.966	6
18	1.026	8	49	0.948	10
19	1.038	5	50	0.949	10
20	1.018	13	51	0.934	12
21	1.034	13	52	0.945	13
22	1.099	4	53	0.988	11
23	1.082	9	54	1.019	11
24	1.048	8	55	1.041	11
25	0.986	12	56	1.049	14
26	0.960	10	57	1.042	15

Table 5-3 (Continued)

Beam Position	A	B(°K)	Beam Position	A	B(°K)
58	1.019	16	69	0.955	24
59	1.015	15	70	0.974	22
60	1.012	12	71	0.941	26
61	0.993	13	72	0.969	22
62	0.976	15	73	0.949	30
63	0.998	12	74	0.967	22
64	0.983	14	75	0.956	27
65	0.998	14	76	0.959	28
66	0.970	19	77	0.969	26
67	0.982	18	78	1.030	13
68	0.980	19			

5.4 ITPR Corrections to the User's Guide

The following tables replace Table 5-3 of The Nimbus 5 User's Guide.

Table 5-4
(First presented in volume 1)

ITPR Calibration Constants for the Period 12/12/72 - 2/6/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0^*	a_1
1	1.0495	-0.001773
2	141.78	-0.1813
3	166.93	-0.2046
4	173.02	-0.2065
5	174.02	-0.1940
6	174.99	-0.1977
7	170.18	-0.1995

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

Table 5-5
(First presented in volume 2)

ITPR Calibration Constants for the Period 2/7/73 - 3/31/73

$$R_s = a_0 + a_1 V$$

R_s = radiance of the scene (mw/m² ster cm⁻¹)

V = digital counts

Channel	a_0 *	a_1
1	1.061	-0.001782
2	141.775	-0.1801
3	166.840	-0.2037
4	172.974	-0.2054
5	174.034	-0.1931
6	175.040	-0.1963
7	170.288	-0.1988

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

Table 5-6
(First presented in volume 3)

ITPR Calibration Constants for the Period 4/1/73 - 5/31/73

$$R_s = a_0 + a_1 V$$

R_s = radiance of the scene (mw/m² ster cm⁻¹)

V = digital counts

Channel	a_0 *	a_1
1	1.056	-0.001783
2	141.6	-0.1815
3	168.8	-0.2057
4	173.0	-0.2068
5	174.0	-0.1946
6	174.9	-0.1976
7	170.1	-0.1987

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

Table 5-7
(First presented in volume 4)

ITPR Calibration Constants for the Period 6/1/73 - 7/31/73

$R_s = a_0 + a_1 V$		
R_s = radiance of the scene (mw/m ² ster cm ⁻¹)		
V = digital counts		
Channel	a_0 *	a_1
1	1.049	-0.001758
2	141.8	-0.1820
3	166.8	-0.2061
4	173.1	-0.2072
5	174.1	-0.1954
6	175.2	-0.1982
7	170.3	-0.1985

*The calibration constant a_0 now includes the radiance of the chopper reference blackbody.

The following are changes to the ITPR material in Section 5 of The Nimbus 5 User's Guide: (First presented in Volume 2)

- The table, Nimbus 5 Compacted Data Format, at the bottom of page 125 should read:

<u>Word</u>	<u>Format</u>	<u>Description</u>
1	I	GMT (seconds)
2	Spec 1	Julian Day and Year
3 - 162	Spec 2 (F1, F3)	Calibrated IR Data
163 - 182	F1	Latitude
183 - 202	F1	Longitude
203 - 222	F1	Zenith
223	I	Grid Type (0 = Nadir) (1, 2, or 3 = Scan)
224 - 225	-	Zero Fill

- On page 126 in the paragraph describing Spec 2, the last two lines of that paragraph should read:

" . . . 4-word pattern will be repeated thru word 162, resulting in 40 sets of IR measurements. "

- The next paragraph (on page 126, after description of Spec 2) should read:

"Each data record will contain 5 major frames of data (225 24-bit words for each major frame) with a total of 1125 24-bit words, or 450 60-bit words. Because major frames will contain either 34, 36, or 40 earth views for each channel, there will be zero fill in the IR data words when 34 or 36 views are present, and the corresponding latitudes and longitudes will be fictitious. This applies also to data samples which occur during re-trace. Zero fill will be used to produce the constant-length record when the the number of major frames in a day is not a multiple of 5. "

- In the next paragraph the following changes should be made:

Line 1: " . . . with a density of 556 6-bit bytes . . . "
should read: " . . . with a density of 800 6-bit bytes . . . "

Line 3: " . . . per day at 320 major frames. . . about 640 records"
should read: " . . . per day at 400 major frames. . . about 960 records"

Line 4: " . . . will contain about 5 days . . . "
should read: " . . . will contain about 4 days . . . "

5.5 SCR Corrections to the User's Guide

The following information supplements the SCR information in the User's Guide and has been derived from post-launch information. (First presented in volume 3.)

The filters of the A and B channels have minor leaks at short wavelengths. Corrections for these leaks are made using the radiance measured by channel C4 (11.5 μ m window channel) in the equation,

$$R_i' = R_i (1 + \gamma_i) - a_i \gamma_i C_4,$$

where R_i is the measured channel i Radiance and R_i' is the corrected radiance. Table 5-7 gives values of γ and $a\gamma$ for the A channels and channel B4. Corrections are of order 1-2 radiance units ($\text{mw/m}^2 \text{ ster cm}^{-1}$) for the A channels. This is small compared with typical measured radiances of 80 units, but still 5-10 times larger than the rms noise. The correction to B4 is normally about 5 radiance units.

The B difference channels are not affected by leaks since the differencing operation causes the leaks to cancel exactly. The equation

$$R_{ij} = R_i + (R_i - R_j)\beta_{ij},$$

where R_{ij} is the calculated channel B_{ij} radiance and R_i is the measured channel B_i radiance, is used to derive the B difference channel radiances (B12, B23, and B34) from the measured B channel radiances (B1, B2, B3, and B4). Table 5-8 gives the coefficients β_{ij} .

Table 5-8

Correction Coefficients γ and $a\gamma$ for the SCR Temperature Sounding Channels

Channel	γ	$a\gamma$
A1	0.0305	0.015
A2	0.0235	0.0105
A3	0.0146	0.0057
A4	0.0595	0.025
B4	0.153	0.0165

Table 5-9

SCR B Difference Channel Coefficients β

Channel	β
B12	9.50
B23	10.05
B34	4.83

Figure 5-1 gives the experimenter's current best estimates of the weighting functions of the A channels and B4, when corrected as above, and of the B difference channels. These channels measure emission from carbon dioxide in the ν_2 band near $15 \mu\text{m}$. The weighting functions were derived for a climatological mean temperature profile and, to a good approximation, are independent of temperature profile for the range of temperature which occurs in the atmosphere. These weighting functions are a compromise between theoretical computations, using spectral line parameters together with measured filter transmission profiles, and pre-launch test results for the flight instrument. This method is similar to the one used for the Nimbus 5 SCR and was described in more detail by Barnett et al (1972).

5.6 NEMS Corrections to the User's Guide.

There are no NEMS corrections to the User's Guide.

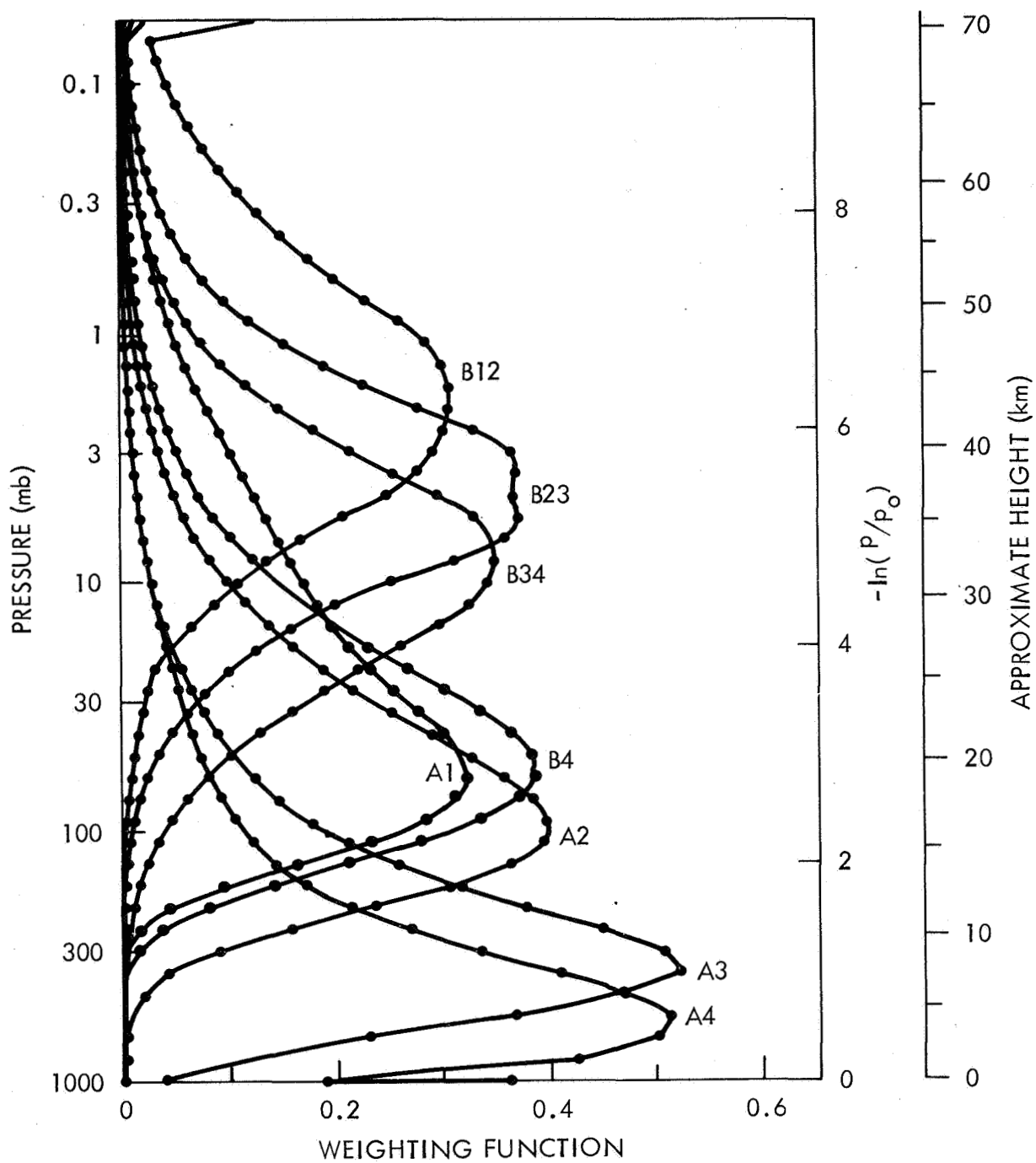
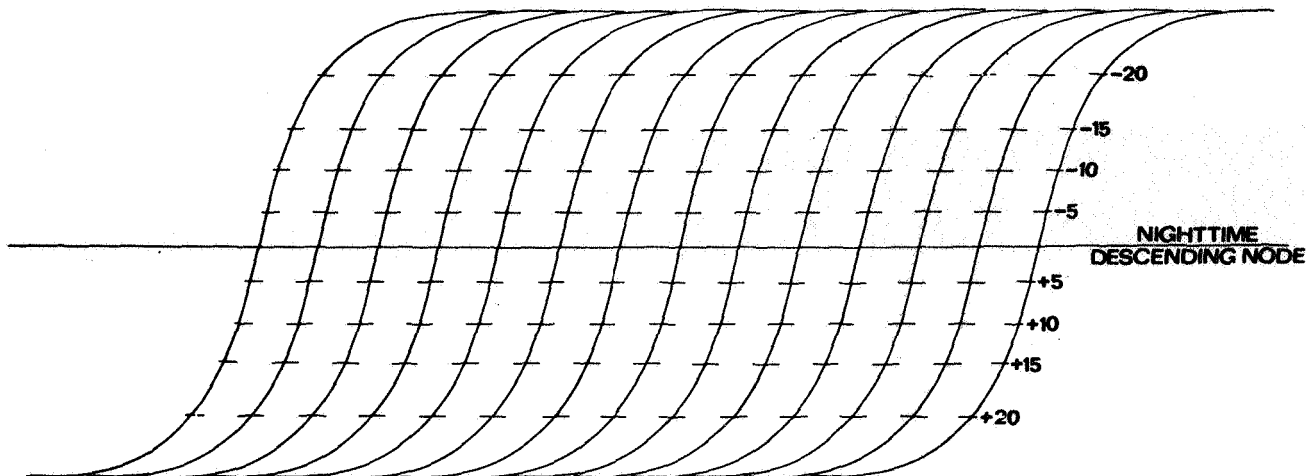
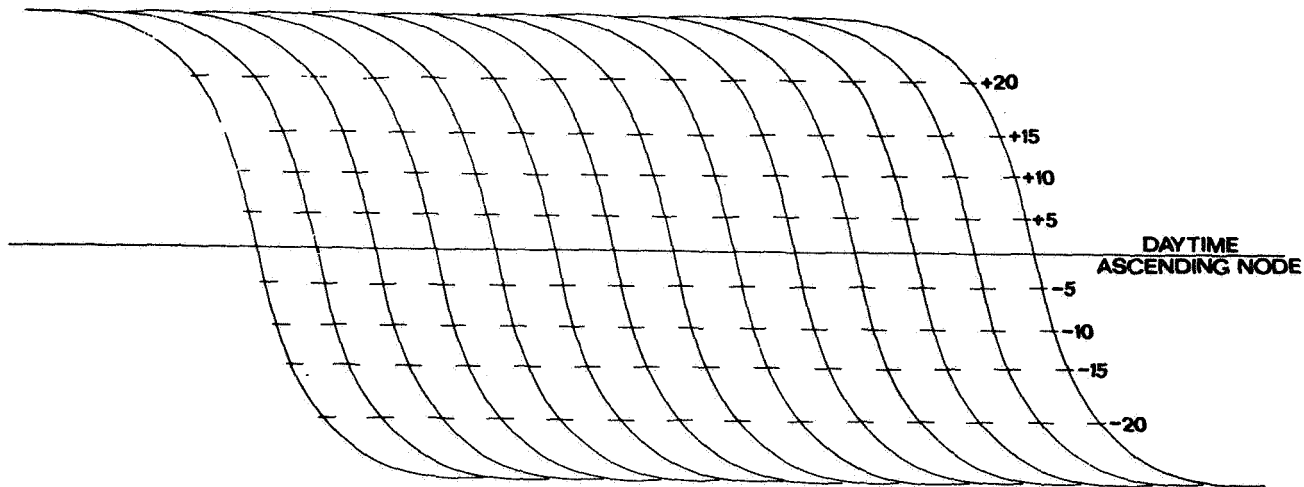


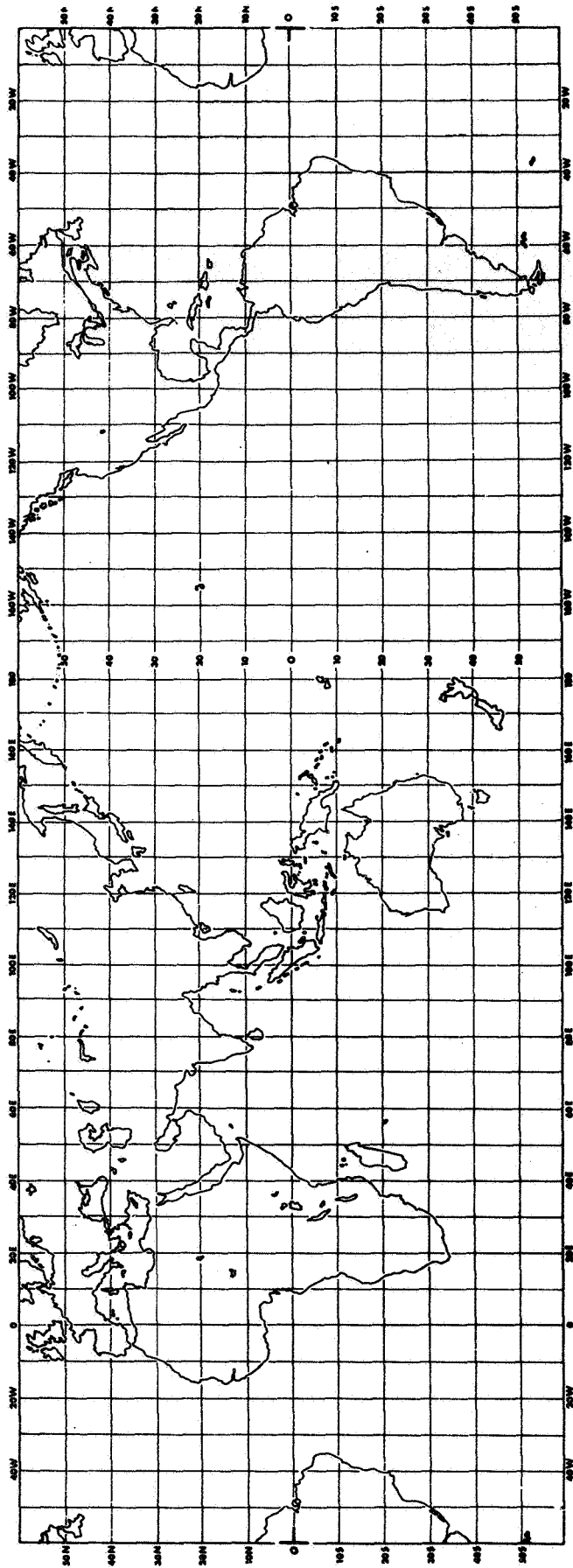
Figure 5-1. Weighting Functions of the Temperature Sounding Channels of the Nimbus 5 SCR. The height scale is approximate. The abscissa is a weighting function on an arbitrary scale.



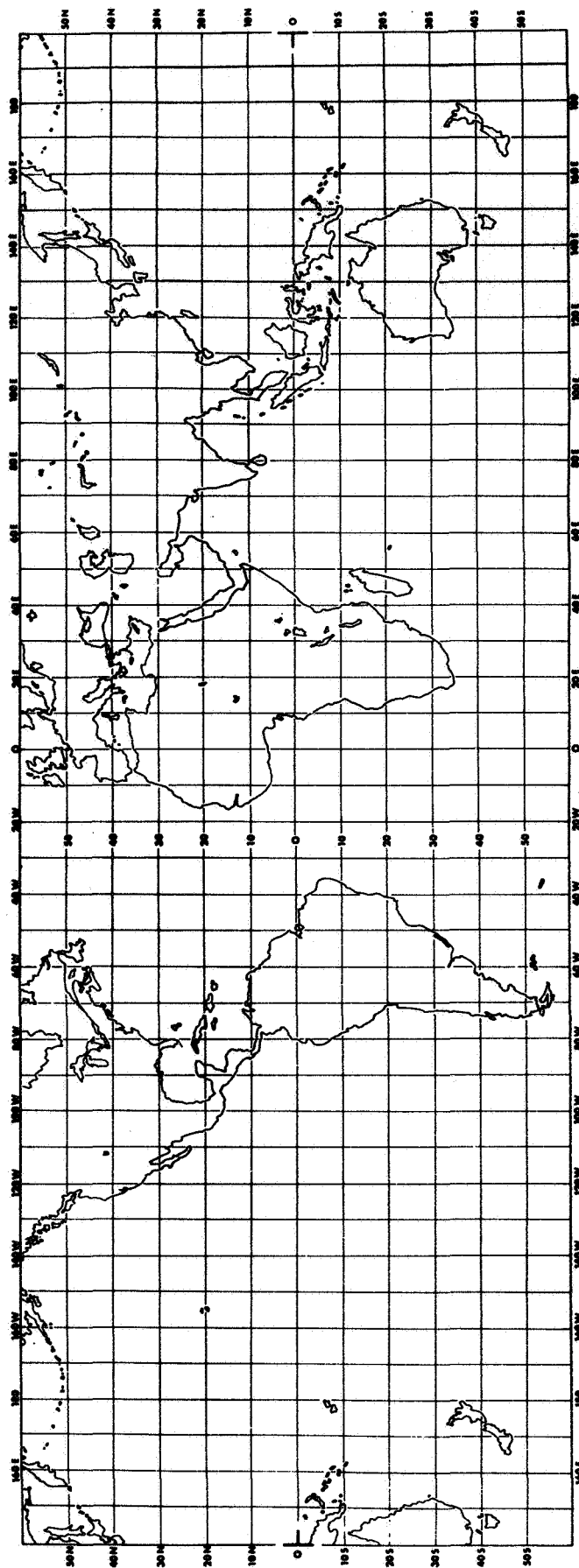
NIMBUS SUBSATELLITE TRACKS OVERLAY



NIMBUS SUBSATELLITE TRACKS OVERLAY



Location Guide
Average Scale for Nimbus
THIR Nighttime Montages



Location Guide
Average Scale for Nimbus
THIR Daytime Montages